



## APPENDIX B: AMINO ACID SEQUENCES

TECH CENTER 1600/2900

JUN 06 2002

RECEIVED

71

1600S

703

1411

> RXA00003 (1-741, translated) 247 residues  
VQVRILSSEL VCSLSGAIRG VNLDIAAPKP KKSGRRTLTK PEWDAVIKHL LTRDTEPLLT  
PTKHKNIRQS TKNIHARIVR LTLLQAVSGL RIAEANQLQW KHIIDGDDGM LINASADIVK  
GRKGKERGRY IPILRADVAE YLRTHREDDE HFIVGSPTTT ARPWDATNAD DKVPELYRQI  
AEATGVKTLQ DLRSHSWRAT LHGVYADVMD PATRAAIFGH TEQVAEEYNN DRQNIESLMR  
QVKRAYA

> RXA00008 (1-492, translated) 164 residues  
MAKKKKKVVDE NNSVLATNRK ARHDYHIIDT WEAGVLLGT EIKSLREGKV SLVDSFATID  
NGEIWLQHLH IPQYSMGSWT NHTPKRTRKL LLHRNEIDSL MGKVRDGNRT LVPLKLYLKN  
GRVKLELGLA QGKQDYDKRQ DIKRRTEERE VTRELGRRIK GINA

> RXA00015 (1-309, translated) 103 residues  
MIDMCTTPRQ EIMIREQFKE INNGRVVPHY DQLEQLAEIF STKDSIDMVN EILNRDITDFL  
SNEGTFIMEY IFNGGFHTDN GYQPLSYAYV ERGLAIRPPR IVL

> RXA00018 (1-1299, translated) 433 residues  
MSALSRPHKI ATGVAVATLT LTLCTSAAGV VHAAQQSISG PESSCAFNQQ RWDDSKVKLD  
DTIATAKNSL VQTGELHRNE QDLLTGYLEFQ QPHSSNYLAL NNAYADAVAI KDSFVRPTCD  
GSKESKIAS E HAVSEVVGAV NVLARAQKAL QINSDTYEQQ RRCDALRLAS RDESDVLMRI  
DRTMLQLRRT LADIDQASTD IRDIRAQTTT FERDLAREQK EADAAARAQA VDTSTPTSS  
TEDRVNDILK ESRTDHS GDS YTRSTTTSAQ STEPDSATNT SYLSRRLDSL ERS AQHIDLN  
TQCDNLDDL ELTNNDTRDH TGSVISIADQ LTDITNEINE LRDSTFATRD SAQQAQDQVI  
AQREELQRAK EARLEEQLRA KEAEEGARNA AIQERDAAEA ALREAQDLLS RLDDTGNATS  
DDTAALVDGL LNN

> RXA00020 (1-780, translated) 260 residues  
MTVTTAQRIA DEFQRGISIG PWDLCEVPAG DDYLEHTTKV RRRHSTAVEI HTDSLIICAP  
EGSTYSHNRT KAGLASTGT TVPVKGLSEP VKLSLNLAD YGNSFDTVHD DLWQRELREQ  
TRGQLTLNA VSGLGDDSV A IMGTPWGDGL TGEANTIKGR EHFVMWAAGC RFEDGYGRHA  
LREDRHVRHQ ARAGEDSTAH HGWLLKGTVF GKELTGDAVT AAMTVFSDVV VTVDEGRIPG  
MKSGQPFMSA TRLRASSAPV

> RXA00021 (1-1773, translated) 591 residues  
MSDTTDSHDP ATSPTVDSAA SGTSDPNQQP KKKFTTIKQV NMIARTAI DD CINRLGPDVV  
TMSSEDIADQ VVNSINVAIA RENTRAQDAN AAVRYTPIFK LDFSHVAVLM RRLHVIINIA  
PSHNSDPDSD MLAIYDPNPR SEHYGIYRTS EAEIRRVARE YCPDLTSAQF RELQMALSDA  
APRKVRHKQR DLIPVKNGIF NYSTKQLEPF SQEFVFLAKS AVNYPNPAQN PVITHPQDGS  
VWDVESWMND LSDDPEVVNL LWEIIGAIVR PYVSWNKS AW FYSEAGNNGK GTLVELMRNI  
LGAEAYTSIQ LSDFSKEFHL ESLTRAQAIL VDENDVGAFL EKSANLKAIV TNDVISINRK  
HKTMLSQYFY GFMVQCSINGF PKVKDQSESF FRRQLFVPFE KSFTGAERKY IKDDYMSRTD  
VLEYVLHRVL HMNYDNLSTP AAALAVLDEY KEFVDPVRAF WNEFSDQFVW DLLPLQFLYE  
FYRKWFDRDS PSGSVLGKRS FIQKITTI AV DSGQWEYPLT AQRPGGDM AV PEPLVIDYDL  
TEWQ NATVPK GHV NKG LPLP LKANYRGLLR KPLTTPATPP AAPVNPTPPT P

> RXA00022 (1-735, translated) 245 residues  
MSAPTIYPGT KTSIDPITMD DARIIFFDIE SLHNIFTVAT YDSLSSHVDV FYLLDHTTSP  
QITVLPHSMD YFDQTRSDAV MAATIEQNPA FAEIKGSPIT TADVALHNLG DTNANRRWQS  
NVLLARLLGG ISVRGEVPEH QSHNHLAKQF AEATLVTRDF DVNYDPTSAH PFTAGFNSIN  
YDTTLLSLYF AMLTSNIGST PTYFPVITAQ ELRAHNDKLF SPEFIKNMPK YFWRDRSGAG  
LRAAS

> RXA00025 (1-1437, translated) 479 residues  
MAWMNVSVIV PGSDEELFVK GLFTGEGLTW LTTNLGANYI GFPLLTVP L ILLAVGVAER  
SGMLAALIRK LFGSAKKIVL PYAVGVIGVT ASIMADAAV VVPPLAAMVF KAAGRHPVAG  
LLGSFAAVGA GYSTAIVPTS LDALFAGITN AVMETLPGIA TTEVNPVSNY YFNIASSIVL  
GLLCGFLIDK VLEPRMWRQK IATEYAESIE PTSAADDEEI SATLTAQENR ALTISMWTTL  
ATAIIVLVV LIPGSPWRNE DGGFLPTSPL LSSVVFIVFL FFMVMGLAYG MVVGTIKNMD  
DVVNMMEAI KDMIGFLVLA FILGQFVALF NWTGIGTWTA VQGAAGLEAI GLTGFPPIIA

FIILASCLNL LIISGSAMWT LMAAVFVPMF ALLGYEPSFI QAAFRVGDSA TQVITPLNPY  
MIVILGLLRR YEPDAGLGLT MSRLIPFVIP FWLAWATLLA IWFYADLPLG PGSAIFLEG

> RXA00027 (1-366, translated) 122 residues  
VDERSRFARS VFPDGEEDPD RFTLANERTF LAWTRTSLAF LAGGIAFEAF QISGLSDTVR  
TTIAVFIIAV GMIIAAGAAV RWMNVERAMR KQKPLPVPAI IPFLSIAALV ASAAVLVLII  
VQ

> RXA00028 (1-1947, translated) 649 residues  
MTLTASSLEA GKMSFSGGYI VGETMIFLVD PDEVEIRRSF NSLHVLNRGS DILRRNEHHC  
WVFENFNKPI DPPVRLGPRD IICPSALAWV LQQHSISRSL SHHLHADKIT AGEIAGRPTW  
ILREPTSGG QDPSRLVSLE IDQEHGVILA VETGQERLEA TEISFPDTLP NPSWDGAWEP  
FHYPDSTPHT APDVAEIPGY IQSLPPQSED PRRLRVFVNE IALEGDFPDY RQGQSVRLTL  
GISSSPVPLE GMTTRRRGRV RNLGEEASPG DDGMPQWPIL LTGDGWTALA YTPIPKRGDA  
EIQGWFFYYSA YGIVDVPTDL RVERIFAGIG TSGTNERLWQ EIDNTSSAYH SEDWWIRDV  
LDVTLDGAVP PPLRRDVFTA VDPIVAGDKL WLCDVHFPVA RCWETTTGRY LGQTLXPAPL  
RDRSYVLELH SDQQLGAVAA SGKSGWILTP QGAVATKAPD WTPPTRATDL PQVPSPWEIV  
AVRGQGLFEL QVETSRRAL GRVNATGGVD IGELPPNGYT ISSVVQIGDE YIVGRWVEEY  
RLNSKLEVIS TKELDISASG WSKSGTVAYL SEDTHICFFD QVSGAELPSL GIAEGHQGEV  
MSATSSSESIV LIYRRNPNS MSIVPTSVAT YDNGTWTTMP LQEAPAELS

> RXA00031 (1-402, translated) 134 residues  
VAAGQWLAGN IGEIDHVLCS DATRTQLTWE RVQLGGATAK GSSFHNDIYE NQVSEFKHLI  
TGLPDVVGTA LLIGHWPGVE ELAHYFGIRD EHPGWDQMEK KFPTSAIAVL EFNTPWSKLE  
RNSARLTDFV IPRG

> RXA00036 (1-1416, translated) 472 residues  
MLERTQVFVD TSYLLASFYN SWETGARAQL EIDLPEVVG V LGRMIEQQLK QPVQRQMWDY  
GIPDSGPHRY QRALRTCDGV QLRAGQLIEW GERRTQKAVD TRLVADLVLA GVRGQCSDIV  
LVSGDADMIP GVQEAANAGL RVHLYGFGWD SMSSQLRHCC DTTTILDPRE DFAECMQLQV  
LEGPLPPVVR VKPINDAEPI EDLDFTPVPG VASPFEEVSA KDEKFSRPS EPAEALSEQV  
CEAQYEISKH EGQTADSGEI TESFEAAEIK VTEFFGEPAA PVAESGVEAP TPEAPTVEPA  
AKPTPAKPKT PKAEPQKQES PKPGTPKPKA PSPADIPPKA PADTEEHSEV EAEIEDSRPK  
IPSPSMMAPR RKLRSRYVPL PNEVWATAGF QTPYDVQQY ASWWFENAAT STQRDQAHLL  
SGGGLPPEID RPLLQFACET LHEYTLTEAQ RVALRDGFHS GIRGVLLNQR DS

> RXA00037 (1-873, translated) 291 residues  
MANPLSKGWK YLMASFDNKI DENADPKIQI QQATEAAQKQ HQQIMQHASQ IIGQQKQLEM  
KLNRLVTDRL KLQEQARQAI QLADKSANEG DSVKAQEFNN TAEVFASQLV AVEQQLEQTT  
ALHQAEVAA KDAVAKSKES EMRLKEQMSQ IDALRAQADQ AKMQESVTKS MDSLNNQFGTQ  
DSSVPTLDV REKIERRYAD ALGAQELTON TVSDRMAEIA QSGTDMRASA RLAEALRAEAL  
GTSATPKGQL EAGVEDAEEL IDETSTPSAT PETASPEADA PEASADESEK K

> RXA00049 (1-687, translated) 229 residues  
MPTPSQHKDA STAQTDNQVP TGRRAQKREQ TRARLITSAR TLMAERGVND VGIAEITEGA  
NIGTGTFYNY FPDREQLLQA VAEDAFESVG IALDQVLTKL DDPAEVFAGS LRHLVRHSLE  
DRIWGGFFIQ MGAHPVLMR ILGPRARRDL LHGLETGRFT IEDLDLATTC TFGSLIAAIQ  
MALSADQDSN DDKDQIFAAA MLRMVGVQAA EAREIASRPL PEISPVPKQ

> RXA00052 (1-711, translated) 237 residues  
VAFILFNFKV TNDETSNVSQ SESTAETVSE TNGVLSDGAE NIASQSDESK SGVEIIDSGF  
GQSSNSAMAI VIAKTSGGSL AGEFVTATVN FLDESGAVVA TEDQVETLSW EDQELVLPVS  
HYKEDSSRPE ITSIEAFLSV TDYSGSQPDE TALPVLETTD ISNPYAGSYN ASFALKNDSS  
DDFKNLRVGI VCYNEQTDII GGGFKFPNLV PAGGSIRMDA SVTVSEMPAS CKAYLNH

> RXA00054 (1-2913, translated) 971 residues  
MSPFDSKLGR DTHFGFLDKT TASQQLLNPS LISNEDPHTM LQAIKLELRT AQSFTFSVAF  
ISSRGIALLK QALLDFKKGK RIITSRYLDF NDPTMFRELL TLENVEVLII QGDGFHSGKY  
VFHHDVGITA VVGSSNLTDN ALLVNREWNL KFSASKNGDI AFQLDDAINR QIERSTPLTP  
EWISEYEATR RVPERLVSNQ IPLEDQSNAG TIVPNVMQEE ALDALLSLTE KGEKRGVIIS  
ATGTGKTI LAALATRLMKPE RVLFVVHREQ ILDKARSEFI KVLERPAVDF GKMSGSTKEL

DKPFVFGTIQ TLTKEATLSQ ISPTDFDLVI VDEVHRAGAE SYLALLNHLQ PQFLLGLTAT  
 PERTDGFNIY ELFDNFVPYE IRLQAALESN MLVPFHYGV TDFTLDSETT VTDTSKLSAL  
 VSEERVHIL EALKTYGHPE NVRGLIFCSK TEEAEELSKL LDQSLFNGSL LKTKALSADK  
 SIPYREEVVA ELESGLDYI LTVDFNEGI DIPSVNQIVM IRSTQSSIVF TQQLGRGLRK  
 AAGKDHRLVI DFIGNYANNY LIPIALFGDN SRNKNSIRRR LIESDIDGTI SGVSSVNFDP  
 IAQERIFAAL KAAKLDSKAQ FKQDIVQLQD RLNHVPALLD FARFNTVDPF ILATHSGNYW  
 SLLSSVKFVD HAPSESEKYF LDFLTGELLN GKRPHLELLI QELMKQPETS TEEFRKLLQA  
 QSTSSDEQTI NSVERILSQE FYTGPNRKKF GEHPILSVQN RTYSFTPEFR RALDESLEVT  
 DRDEAAQNFK FHVQDIIDTG LFIARNNGFW QGNLVVGERY SRRDVCRIIN WERNNESTIY  
 GYKVDSTST CPIFVTHKA DDVSESTRYQ DELVDPNTLH WYSRGNRKIT SNEIKPIAAN  
 AVDLHVFVKK DDAEGLDFFY LGQAHSSENSK QSSMPGNKGV VQPVVTMDLQ FDTPEQSLF  
 EYLSTNLAVT E

> RXA00056 (1-750, translated) 250 residues  
 LLNRVSRIAG ASAITLCIGL TTILSPTSTA QSLEQITPLP ESAIDLNAEI HVNTSDISAE  
 QILGAQDEIT TMYDSHPYE YFDLTLDIEQ RSIIAALKRD PSSLQQRQET RLAAQSDPYK  
 IYISGLEMLS CINLVDVVSC GIANQAATKA NNEAVARYPG DSLRNGKGDG FRHCSWNALM  
 TIRIGSNGAE RIATNHETIG DGPADENAMD LFNNAQGRQI GAGFINSKDE TSALAICALW  
 TNLGRKLTLL

> RXA00058 (1-564, translated) 188 residues  
 MKFFGFYRPI ALIAGITVSA SILTSVATAA ESPTSFAQIT PAFSSSSAPE ADAEANTSEA  
 TADLLYVAEN QLLIKLSNAV VEDVNGEILM KDNKGTLLN LTAELQAQPG FSIEKVDSHT  
 ALLTMNPDEV PDLQDWRCGV GALSGGVAGV VATGLALAAL GVATGGTGFA VLAAGGLAGY  
 GTGAVANC

> RXA00059 (1-282, translated) 94 residues  
 VLTGILLAMV STALRIRFGS GVAIAATVLW TVISITLGGD VLAETMLWLW AVPSWPETAD  
 TTRFLIAML LQAVLITGST IWAIREIRDS ERRG

> RXA00063 (1-285, translated) 95 residues  
 MTDGDLADI SPRQIGLMTT RTVVEIVRLR HMIAQQLERA TIMENEYLKE IAALKKELAH  
 YKQKDHQNM VIDILGKAIG TRPNPEGGLD EEDAT

> RXA00065 (1-273, translated) 91 residues  
 MANLPQEGFS VVHGILADPR IWGPEIPYVR EEAGQVNVEA PDEAGDLARL TLPLQLILLT  
 EEEFAIALNE GSDVMFERMA EQEVDLLDLK R

> RXA00067 (1-486, translated) 162 residues  
 MVDAQRPKAG IFGSHTTEETW VWLGNELFDE SGEVIADVRS DVLYVDRERL LIESTPGTMR  
 FRCRATLSGG EVYTMQNSF TVGDLTAVCG RRTYSLKRVS PWRKERLITN NGVEVARLRP  
 MTSGKVEFIV GTAGSEALPF VDAVFLSWAC VLVDSAVRRP KI

> RXA00068 (1-582, translated) 194 residues  
 MTSKDLIVTS YTSWGRFKN DGKLFINLLR STTDSADEKV LATFGEVPSK SFETTATVDE  
 QQWELFSID GTATAKLPDG RVFSANAGEK TFTKSKRIEI DMDGTAMAAV NEDKNNWIID  
 DSEENKVAQF TGMNNGVRRR IVEFEPDEV TQEQEIFLSW VARKTLESRM LGSSWGLTLF  
 LIILTPIIIF LTFS

> RXA00071 (1-1452, translated) 484 residues  
 MSITTHVQAL TTALNAIDNH LASMXDHGVT PDQYKAIEPD LIALEHTINH HATIAAQTXA  
 LAERTXXXXX IGSTHLIDYL TTTFGLSKAR AHHRINLAHS LYPIPKPNSG SNGGGNGGNP  
 DGGPDGGDSG DDDSGDDDPD PEPDKPEDGK PDSKPRRPR ISAEKHAIIT DELARLNPT  
 TPSAEEXRXQ ALSXAIWRTP EDLRTWLRHQ VTTANKNNPN PITAMKRRYL SVGKPDADNM  
 VRISGLVPAA TAALITANTA PLTKRGNLVD LPAAEDMRTR GQRHADALHH IMEIYNHGIV  
 TPARGGTASI IISMTTDDLD EINHGHDG DG SLLNNLYPTN TGYSNLAEI MNLIAAKYDF  
 AVLDDGETGQ PLNVNRMQRS ANLTQRIALF ASELVCSAPN CDRPQLECEV HHLDPWMRGG  
 LTNLVNLTHQ CFNHHPRNDD SRSGVNGKGF MDRDPVTGRV GHYSASGEGP VFNRSAADR  
 SGA

> RXA00077 (1-1362, translated) 454 residues

MNDENIQSSN YQFPFSFDDW KQIEVSLLDV IESSRHFSDL KDSTDRSALD AALERAKRAA  
 AVDTNAIEGI FQTDGRGFTHT VATQVGAWEQ QMAMKGKHKV PAFDDTLEGF EYVLDVAVTGR  
 TPISQQWIRN LHAVILRSQE SHEVFTAVGV QNQAALQKGEY KTQPNSPQRS DGSVHAYAPV  
 EDTPAEMARF ISELESKEFL AAEKVIQAAY AHYAFVCIHP FADGNRVAR ALASVFLYKD  
 PGVPLVIYQD QRRDYIHALE AADKNNPLLL IRFFAERVD TINSIIVDLT TPIAGKSGSA  
 KLSDALRPTR VLPDLHDAAH RLQESLFTEI RSRLDEEGKR NGLEFLLQRI FIGSPFNLPE  
 GYNAPDSYC LTAFNSNSP KQIFHPLSIV IAARDGKRAS SDLVAATSIG YNFHAYGREV  
 EPVVTESFRE RVKIYADGIV DHFLTELAKK FQQN

> RXA00079 (1-222, translated) 74 residues  
 MGLVHTEFTP INTYGILDHV VTLPDGTVKL NPFRVIPHDT GSELIFTVRP NENFEEDCQA  
 VAADLERLVA LAEK

> RXA00080 (1-420, translated) 140 residues  
 MIVLLFINLP FAQLWAKLLL IPNHYLYSGI ALFCGLGIYA TSGAVFDLLM LLGIGVVALI  
 MRRYGYPLAP LMIGMVLGPL AETSLRDALL SSVGDFSILV SSPITWSLYA VLAIFIAVSV  
 ITAIRGRRKH LTSQLETIDA

> RXA00082 (1-564, translated) 188 residues  
 VNVTEQSGES HIDIPESHQL PGPRPVGEGT FWEGRSGLIM PAILTAFSLY LLIGVLNMDV  
 GNAAPGPRF FPTILGIAGL LVAVALTIQT IKYPMHPENE SGRSWKFHSD YVSLAWAIGG  
 FFAFAVLLPY LGWVLGSL LFWMTAFSGS KRPFGDVLVS LMMSSVVYLA FDVGLGLNLP  
 SGLLGGGF

> RXA00083 (1-300, translated) 100 residues  
 VLALPSSIID PLWCQFAALI PPVTDTHPLR CHRPRIPDRI IFDKLIQVLV LGASYAKIAD  
 TTCSATTLRT RRDEWITAGI FEQLEQICLE FYDRIVGLDL

> RXA00087 (1-528, translated) 176 residues  
 MIGGIIGLIL SVIIMAEKLA ILEDPGHITS CDFNAVLACG DVMRSGQANA FGIPNPLIGI  
 AGFAAVAIIG AGILAGGGER GWFWGAQAG LTFAMMFCHW LAYQMSVIR ALCPYCMGVW  
 TVSIIMFVLV TAWNVTFTSG SDSTFVNALY KYKWVIAIVW LLLIAAAVW SFRYMF

> RXA00093 (1-2223, translated) 741 residues  
 VTTLLAATRP TLRDAFKHPW RSLAAILLVA VPMFLVSFFL TYDQSINNAA SYPGSQVQAH  
 YDGEAYQLL QENLPEDFHL ELFANGYPEV SFGDEEVNFF VVQSTNVQQA SFPADALDVL  
 GATIGDVTI HGTPVEVQSI SPTNILLPEG TLFSLENFSE SETFSGTWYF PGSNFTEENR  
 QALEAVGFV NEYRRGPISV DPNLIPSYIM GFLSTTILAV VALMLISPVF TISASRQTRT  
 FALLASQGT PRHIRWAVLT YGLFAGLVGA SIGLVLGQIG IYGWVKYTP EFSLTPWLIV  
 LVGFALAI ASTIAAFLPA VEVSRSSIIN GIYGGISDKI IRWSPRMLIG PIVLIAAAVI  
 ALFIGDGEWG GVVKQLCFLA AVIALPASVP AVLWALGRLP GLTFKLATRD MLRRSMHSIP  
 AIGALAAVIM LGTFMQTTGL ATQASDREAT ASVYPEAVFL RGDQIPGLM GQKIDVYGDN  
 HGFGIYELDV DFYSANYVPA LTSFFGGPVI ATPKILDMFG VHEQADIYAP STYNSGLQY  
 AIYPGDETYM LDAAVLPPL YSHVLLSPET FEEIGGQTEF LGTIVLPQEL DDQTVQAINR  
 SRDAHFSDG HNSSLASSAA LTAVAIIVVS LVIVLANRKL QQHALIAIGA TPGTIYKVNA  
 LNAALLALVG GIMGLVSGWI AALLTGTTDE IVDGAILNYG TLEHMLPWP LLVSLLVVAP  
 LCAVIGAIA SPSGRHQEAS I

> RXA00096 (1-303, translated) 101 residues  
 MTNAGDNFEI RMPSGTDDPL SDAEIQKYRE EINRLDREIL DAVKRRTKIS QTIGKTRMSS  
 GGTRLVHTRE VAIINQFREE IGEEGPALAG ILLRMGRGKL G

> RXA00097 (1-1161, translated) 387 residues  
 LFTNFFAVNN PDSPPARQKT KLRELEHRFW QEHLPGDDDD HSTAISSLAI VTGLTKAQVS  
 RISIAFATLA DLPKALQK KLYHLDLSRL ITISNELAGI NPDNLGADA ILTEYLTATS  
 PNQILPSPAS IGRKIKEIRD LLDDARATGS RGTQDDSSFG VTFSPDGTAE IGASVDAVDG  
 HIINDAVTQH AKKNDLTYGE AFSDILRNNI QVKVVLNLYT AKDLANAPVW ASIGWLDAK  
 TGTWFSEKAN KEQMDMAAAK ISTDKHDPPP ALRDALIGRD GTCRFPGCSV PALKTQADHR  
 IPYEEGGETC LGGIGCLCQH HHNMKTGDRV TYLLDPFSGI IVWLMGDGTW AVSEPNGPLN  
 PKNARWAQTV AQHRARHHKR WVKEDAK



> RXA00101 (1-408, translated) 136 residues  
 MRLILNLIWL FFGGIWLALG YVFFGIIACI FIVTIPAGIA SFRMANYALW PFGRTVVRNP  
 KAGGFSALSN GLWFIIAGLW LAIGHLTTAA AQAITIIGIP LAIANIRMIP VTCFPFGKEI  
 YDSNRIPFGY EPMVKF

> RXA00108 (1-543, translated) 181 residues  
 MKKFFVAGAV LSSALVMAAC SPANQSDSTS TSVETTSSSS TQVSDAVITT ENAVVRASVE  
 DSDMTAVFAT LVNNSDDEIN VSGFTADVDA ASFEVHEVVD GVMQEKPGGF VIPAGESIEL  
 APGGDHLIM GLANPIEAGD EVTVTLELAD GSEVKLDPIP ARTIAAGDED YGDLGTEGHE  
 G

> RXA00110 (1-549, translated) 183 residues  
 VSNKDGLFTD GNSTFAPKVD SIPLSDVDT SSGEASIGTL ISNATSQMSS LFRAEVELAK  
 TELAGEAKKA AIGGGAFSVA GVIALYSSFF FFFFVAALLS EWIKPWAAFL IVFLFMLVIA  
 AALALFGWRK VKKMGAPKNT IQSVNQLKNL VPGQASEKLE KANKRGLYTS ASFHSPGAIT  
 GDH

> RXA00114 (1-489, translated) 163 residues  
 MKLLKFAAAG TFALALAGCT QTESLVATIE SATSAAQASG NDVEGDQTSF FELSVGECFN  
 DTYYYYEISEV PIVDCAEPHD NEIYYLYDIE GDDFPTDITT TGYEGCLPTF EGFVGAPYET  
 SIYEVYPMTP TFGSWTNGDR EVVCSVYLAT GEQMTGTAAG TAQ

> RXA00117 (1-591, translated) 197 residues  
 MTSAQPITSV DAQTLKSWID KHEGLTVIDV RTAHEFSNLH IKGSYNVPLT TLAHSEEEIS  
 SRVGEHVVLV CQSGIRAGQA QQKLAPLGIS TVAVLEGGIN SFAKADGDVV RGTQVWDIER  
 QVRFAAGSLV LAGLAGGKFL SPKVRTLGI IGAGLTFSGV SNTCAMGKAL SALPWNKTKP  
 VPTETETLSK LPSPKEN

> RXA00118 (1-255, translated) 85 residues  
 MQLNPDEITP VLNRLKRAQG QLTGVIRMLD EGEDCKAVVT QLAAVTKALD RAGFAIIATG  
 LEQCLTNPDG DMDKKELEKL FLSLA

> RXA00119 (1-759, translated) 253 residues  
 MLEFPADVIP ENIKHIAQTK FQTEATSVED IRRAINLLSD QAERAGASFN PGFILAQVGS  
 TIVEVYGGAP VAWLDAVELL ISPDVEWVG VHSRKL DINV SGELSGVISA GDKLGELLGD  
 DWTINIVHGE YKIQIEDARP STAFLADATE LINQANSEIV PFHVRMLSNS KIVMSGFSDY  
 SLAGDAITSA GKLAELARPF AHWKENVIPT IEIAMDYEPS PVADLWQGDS SETPEPFDDF  
 ERLLEEMLI PEI

> RXA00120 (1-654, translated) 218 residues  
 VESLYFDSAD LRCYTEKIEG LKFRRLRIR TYGDGVLTPE STVSVEIKQR VNKVTQKRRL  
 DLPFIYALAL GDSTGAARGE QVDVEKLEI SPENQHALIH EMASFAKNYR LRPIATTKYH  
 REAFVGADAE ESSRVTIDHG VSGRDRDFLL QDLEDRPTV AQGLAVVEIK CDERPFWLT  
 DMTAQLEMSV IRMSKYCETI EAFHNR PASA FGAVDPIF

> RXA00121 (1-711, translated) 237 residues  
 MLSDLSSIFD FQDLSGTFSV VDLITLVLS FVLTSIVGVV YQKTHRHISY SQSFVQTLVL  
 VGMVIAIIML VVGSNIRAF ALVGALSVIR FRNAVKETRD VGFLFLAMAI GMTTCGTRFYV  
 LAIAATIVVC GVLFIYRFD WFKADIQRQV IKVQVPADGQ ADSGRSYAEE VELILAQYCT  
 SFEMMSAESV RGGALTEFSY TAQMRKNVKP HELVAKMRDV NYGQKATVLT GHDQTDV

> RXA00122 (1-1623, translated) 541 residues  
 MNRRLFLGTS AAIIVAGGVL GGVQVVPYIS SGEIQTSASS TATIDVGAGN VDIFDTSVSH  
 EISLQVSQES LDEMLADYQE DGSKTWVKAT ITIDGV TIEN VGIRLKG NST LSGLGRTSEE  
 GGPQAPPEGVE EFTDLSEEEI AQFEEQFAAQ QETTDASETG ETAENEETRG PGGGMGGGGM  
 GGMSVSDADD VSTWPLLISF DKYEDGRVYQ GMTQLALRPG TTVVNEAMAL ALTAETGQVS  
 QQSSFTTFSL NDEPSTTRLL LKHPDENYAD ALGNGVLFKA DSNSSFTYQG EDQTEYDQGQF  
 KQINGDNGND IQPIINLLKW LDTASDEEFA EHLSDYVDVE SFARYVATQN LLVNSDDMAG  
 PGSNYLWYD YDTGLISVIS WDLNLAMSGS TDAGPDDEIS MGGGGGGGMR PGGTDDTEIE  
 GTATEDMPDM GNMQQRERPE GMPDMGEMPD MGDREGGGSM GGNQLKERFL ASDAFTEIYE  
 QVYWELYEEM YGSGTAIELL DEIAASIPET DAVTADEIAT EVASMREWIT ARTEALAAALQ

E

> RXA00127 (1-456, translated) 152 residues  
LSPYDGPHERN VLIALKEHGR ADLVAFVGAV VGASISYLAA QGEIEHDITL VPAPTRATSR  
RRRGDPVER VCNASRLSTF PCLQISSRTP DSVGQTAQQR RLNMRLVELVR QPRGSVLIID  
DVVTGTATIS ASANVLRAAG VQVRGALTYC QA

> RXA00128 (1-1704, translated) 568 residues  
VSKISTKLKA LTAVLSVTTL VAGCSTLPQN TDPOVLRFS GSQSTQEIAG PTPNQDPDLL  
IRGFFSAGAY PTQQYEAAKA YLTEGTRSTW NPAASTRILD RIDLNTLPGS TNAERTIAIR  
GTQVGTLLSG GVIQPENAEF EAEITMRRED GEWRIDALPD GILLERNDLR NHYTPHDVYF  
FDPGQVLVG DRRWLFNESQ SMSTVLMALL VNGPSPAISP GVVNQLSTDA SFVGFNDGEY  
QFTGLGNLDD DARLRFQAQA VWTLAHADVA GPYTLVADGA PLLSEFPTLT TDDLAEYNPE  
AYTNTVSTLF ALQDGSLSRV SSGNVSPLOQ IWSGGDIDSA AISSSANVVA AVRHENNEAV  
LTVGSMGVT SDALRSETIT RPTFEYASSG LWAVVDGETP VRVARSAITG ELVQTEAEIV  
LPRDVTGPIS EFQLSRTGVR AAMIEGKVV VGVVTRPGPG ERRVTNITEV APSLGEAALS  
INWRPDGILL VGTSIPETPL WRVEQDGSAL SSMPSGNLSA PVVAVASSAT TVYVTDSDAM  
LQLPTADNDI WREVPGLLGT RAAPVVAY

> RXA00134 (1-570, translated) 190 residues  
MAVHLTKIYT RTGDDGTTGL SNFERVPKDD PRLIAYADSD EANCAIGQVL ALSSPTEDMA  
TLLRTIQNEL FDVGADLATP IEENPKYPL RVLPEYIERL EKECDKWNED VPALDSFILP  
GGTPAAALLH TARVITRAE RAAWIAVREF PSTTSTLPAQ YLNRLSDLLF ILSRVANNNG  
DVKWVPGGKR

> RXA00140 (1-186, translated) 62 residues  
MSDESIEEQE KELAALKAQI DELEKKDKQN KLIIEILSKA VEKNVAEAEA KRARKYPPNP  
LW

> RXA00141 (1-462, translated) 154 residues  
MTTDSNSATI PTPKPIVPTI DRISLIMKEF GIDLSIADEQ GTGSQVASAN LNHGHHVMFAV  
IGSVLIVRAD RATEMPVSDG NPAWHLACNQ VNCNFNFAKA VVVDRTDNIV IRAEKDVPIA  
AGLNDIQLSA MLKNAIDHVL AIQDAVANAG KEIG

> RXA00142 (1-477, translated) 159 residues  
VPQSPTAHDP NDIQEFNLDA VAGILQDEKL DYRIDEHDGE KVIRTGFINA AISFILLDGS  
LTMEAMWRGA PSTDAAAQVL AATNEWNLTQ FAPTIRFFEL NEGTALINAL RHVVVSAGMS  
HNQVGSYVMS SIESAVQCFE WLEQQFPDLV TWKDEHHDH

> RXA00150 (1-774, translated) 258 residues  
MVFSMHDKGE TQENPADMSG RLNTPISTVF HFFSSLFHDH LRSVAQWSAW KKIIVSVVIV  
AIISVTFLVD VPPISVYRDW ANNAGDAFVL VFCAFYILIT QFPPIRPTVLT LASGVLFPGV  
LGSVALGST TVSAVISLLI VRGLLGDWMA PRLTHPAVSR INTRLEQRGW LAITSLRMIA  
AIPFSILNYV AALTSVPVFS FAIATLIGSA PGTIVTVVLG DAVTGSGNWT AVAFTVFLAI  
LGVLGIFLDQ KMPVKPGK

> RXA00151 (1-597, translated) 199 residues  
MWALHARYRG RDTRRAELVK RFAEALSTLE GAGQFEVIGV EDIRAHITSP LTTCDVVMAL  
LAAGDWAIGI GVIPTVDGTV DESDEAIEQ VKKISSDALR PTAKAGTVKV RIAGTKRDNT  
QAFNISAAFT LIGQVLSKRT IEGREATLV RSGLNQNEAA QELGISKQAM SQRLQAAGWQ  
AESAGWQLAV NLIEQAGKR

> RXA00153 (1-426, translated) 142 residues  
VGAIWFIGA LVLAGLELAV GEFTLLMLGG AALATAGVAL IGVPVWAEFV TFAVASAALL  
MFIRPAIRKR LLKPKVLDSS PRALVGHRAE VLEDVGATSG QVRLDGSISW ARSMDPTHFT  
AEGEIVSVID IQGTTAIVWK EA

> RXA00154 (1-843, translated) 281 residues  
MSFSDPYAGN IFGGHSRNKQ PEYDPVPAKP GLVVEVRGDG FVGAVTGFER TYDGDFVRLE  
DRRGRDALYK LRKGAFMIDG QIVNLTRFVE KQAPRKSNSG SRRVENAQAK VAAPSRIWE  
GIHDAAIVEK VWGHDLRVEG VVVEYLEGLD NLEERLAEFQ PGPGRRIGVL ADHLVEGSKE

TRMTKSLPAD VAVTGHPIYD IWAAVKPERL GLKAWPEVPY GEDWKTGICK RVGWSDPKEG  
WHRVYNAVNS FRDLDTLIG AVERLVDFVT NLDLSKEDVL A

> RXA00155 (1-783, translated) 261 residues

MEIRANVYSP LQNTAVWLGA WLYELVPTED VIDAFVDLGG PHTFGDGGLL DMLRTLKELT  
STLIDAPFHG PILTLALSGP GOVPALPAGS RAAVLASASK EGALVLGGVD KQHSWALIPT  
RGKDATEWNL VEVEGFLPAI ATVSPGEADQ LLRQATDQAA NIELSGYAS LAPKSLKNPR  
LTVGMLSDFY DTPGLPYAVP ERSAKLFARA DRVAIAETV QETIGDHSLD PQLIFLWSHI  
RTARMAGVSY ALAEFARDYH S

> RXA00159 (1-1182, translated) 394 residues

MENVSSVTSD GSVADVHAER WQELLARLDA DAPDIAEGTA AKLLATIPGY ELVDAGPIRE  
SSIRNTALII RVINAGTEPK AEDLPEALRL ADERIAQNVP LGSVLHGFRM SLGEILEHLV  
QLGPEYNIDP GRMLRWSTLM WAVNDAFSTR ATRVYRDHEV ATAIADSVRR SEWIGKAVSE  
GSELSELLWG AMYDVPADT PLRALAATSP DHAKAETQIQ KWTQRAGVRV LASVQPSVIV  
GIVIGEPKRN VDGPGFAVGL GRAEVLKSLA DSYKDASLVL KAADNLKLE VQRAQDLQSWK  
LAIHASPRVT EILAQKYVKP LRESGEFAHE IVESLRAYVD NQMNIPIAAR SIPVHVNTLR  
YRLRRFEELT GCYLEDTSTV IEVSWVLEVF GREL

> RXA00161 (1-462, translated) 154 residues

MSEPGPSGVK EKKKVKASHI VFLLCIFIAA CALAWWQWSR FQSGSGTFQN LGYAFQWPLI  
GAFFVYAYRK YLQYENESIE LENMEAKMMA EQGKTPVAQS EQEDSFVQLS HRPSLVEDDS  
VKEIDESFLP SRPTMDVEEF NRLNDPHARR RRKA

> RXA00162 (1-354, translated) 118 residues

VSTTTPIHPE RKKRVRQALT MFSIAAWVTG VFLALVAEM IMKYIIGMDL PEWARFVPIA  
HGWWYIVFLM TTLNLGLKAR WNPTRWVTTA IAGVVPLLSF FVEHNRKKEV TQTFQLNS

> RXA00167 (1-261, translated) 87 residues

MYLLNPPVTE PEILTVNEIP TVVAVFDNHP MNDMPAAFDQ TYQVLFPTLG AKGIAPIGPG  
FALYTSEPTD TVSFEVGMPV SQPLEGE

> RXA00169 (1-2073, translated) 691 residues

MSLGNPAAML AAYNTSTQVA PQQQLGPRAG EVQLSSEQQA MIDYVLAGKD VIVDATVGSG  
KTTAIQRLCS IMGADHDVLY LTYSKLLKVD AQQRVRGAKV QNYHGIVYPH LLKAGIKCGI  
SESIREFNKN FKHISRTFPS YDLLVIDEYQ DINEDYAEEL RNIKSVNPLM QIVMVGDLQ  
KVRSDTTLDP QEFQAQLCED PVFAPFTQSF RIGEAMAAGL ADAWNKPIVG ANTAQQIEYR  
SFAEAVVLIQ STEPSKLLCL GSRNGQMSDA LNVVERKSPA KFNKKTVFAS IRDGSQIAH  
PNDAAVFTTF DSSKGLERDT CVVFDYDEEF WDMRLGYPNV DPVVMRNVFL VAASRGKKNV  
VFVRSDSLQA AYEAGADWAA GLAVGVVDNN TEVAPEVDAH TPAAESKGDV GEVQSQIERM  
MGFIPVSVFK ELPALAPSEY ARPISVTEAF DFKYAENVEA CFDLLDVKRL DNGKGAAIEV  
NRSDGLIDLS PTVGNFQEA VFFKDYNVHTA LSAYPSQFAK NLKRLVKKNN SVWRNCLIVT  
AASTEQMRYV DQVRSSIPVA AEKALVSRLS TRLNADSRNQ IPLILDGEAV QSKVVRTPMS  
FAGVADAVHK GVLYELKFVS ELTHPMFLQL AMYLVMSGMK DGILWNTRTD EAWQVRVPDP  
KRFLNAVVL C VSKQDYRVGN FDLPTGGGA R

> RXA00170 (1-1854, translated) 618 residues

MLLAIGVASP VAQAQVEDQF ELVKEISDEQ FADDGVDYVP NRNAPTVEQ LEDFESAHPE  
VVIEYHEHVN DSKDNVEELP LPKRDIVAGE MRSDVIELPE GVSKEADQV EVAEARLNEG  
ARLMAATGCE AMWPTGFSVC GRILDAYRQV GGQLSWLGPP KSNELTNPDG VGKRSEFVGG  
AIYWHPDGTA YAVTLDGLRQ WGTLNWESGP LGYPTSGPMD TNYPLTQRQT FQGGDNYNPN  
LTGGAVWGDI KQRYEELGGS NHAIGIPITN ELPSGTEYFY NNFNGTISW RNDRTQTFMY  
LATQVRWDAL GRETGRLGFP EADETPEVSG LFHVVNFAER GVIAWNGILG ARELYGDVYS  
LWLQYQNTDT PLGWPIPSLT SLNESLEQEF TRGVVLGSGD ALTWIPDDEE RSLEDFLPIG  
SSGSSSSSQE MTLFSQRAQY VDCKNLPDL EQRKTENNIE KNGGPIKKEY SSRGFPTFR  
FVVRKGYDR YRNEGWGYLK NYCKHNFANH AMAEAVVDKA VIDYGSSPGT SYKFEKTVY  
FLDCRTYTFN KNSGCKEMHA PQWVTIIYNP HTFTGANSNR PKGVISAWCN STPPGGIEHE  
PEISQCPDHV NLYNKLRI

> RXA00171 (1-231, translated) 77 residues

LAAEVKRLRE RDDARDQQLG VLNEAMFSLG GDGLDRFRES GDEASFNAAL NYQAVVAPEM

FKTVYGVDPDS TGEPIPT

> RXA00173 (1-333, translated) 111 residues  
 MSTTIKAAAP YSLHAHDLEQ LAVDLTLVTT FDSNAAVDVT PTHTEAPGFT LHEGTDTPM  
 APTLVVPISS DISTAVSEIS TLVQQARTDA ASAIHEAEAE FYNQLAAVLA Q

> RXA00174 (1-285, translated) 95 residues  
 MPNHPPISTF DDRRSAMREG ITDYLANTNA NGLGGYSISD THLDNLAEKF TRTHGEAQYD  
 AGFDPNDLEP ETFVRDIEMS WDERAIDRAL IHTQL

> RXA00175 (1-630, translated) 210 residues  
 MAVCQLPQPE KTTLIKDDLL LMTSTTNSTA MFNDHLIPMA ELDEQALRDS VGSWAQYKHP  
 LDQRKEPELV LIRRVNSSER VVVLSTFDLR ADAGLVPRST PNADPSNIRN TIFSVAVRDL  
 VLDRSLPRLL NLNGQPPAGE WEEGFVYVDY DQSDTVDGYL IEHSEPVISIE SQTGTGEMHYF  
 DKVPGGVAVT NNPDGTEQGD ARRWVSHWES

> RXA00176 (1-159, translated) 53 residues  
 QLMYSTSSFT TVKQTIGIDL AELIQGRALG QAQGEAQGKA SAAALEQAPH NEQ

> RXA00179 (1-459, translated) 153 residues  
 MIAIHAI AAI LFLGPATVAN SQFHVRYADA HNGNTQAAGS AKTLFKISQS YGMLSLVLPL  
 LGIAIMLLDW SFYKSEGQFH AAIALSVITW ALLLFVIFPR QKKMMGALDL LEDDEQAQAKT  
 YEIENWDKAK SQLSMFGGIW ALLWVIAVL MFI

> RXA00180 (1-540, translated) 180 residues  
 MKNFIRVLIA FSVFLCIYTV APHIGRPGPD LAPVTAIPQR ATVLGYDRAS MFGGWLGGVR  
 EGIVDEAGDT DPYSGNRLDL SSAEVDHILP LSAAWDLGAH RWSAGERISF ANDPLNLVLV  
 SKAENQEKSD QLPSEWLPSD RSARCWYVER LFAVANAYEL PLPENDIRVG RKQCGFAKPW

> RXA00183 (1-852, translated) 284 residues  
 MTESRRVKMD NVIYANFGSK QRVSTPDDRT QVINKSRHKQ FSPAGTRTVM LTEKNADSGR  
 RSRGEQYYRN GNVGTGMTVLE GRVECTVAGS QNEPFVTTVT FPYRSSEKLR EAYAAIADTP  
 NGLRLVRDGH LTSSMLDHLV GSPDESIYFD CTCPDRLVC KHAVASAYHV AEKMTANPGL  
 ILDIRGQGMA GLEALIRTYH TKVETEPEDN DSFWNGREL P ALPDPKIAPA IDDSIDINYLH  
 KALRMVSYTS LEQLRAVSDI EDMYEILVAN HPDNQQVYEE EDTD

> RXA00185 (1-2628, translated) 876 residues  
 MRIHEI I I D N FRAIEHLELR DIPDQGVIVI HGDNEQGKSS ILEAIKTVLN SKHRTTSKTI  
 KAIQPVDRDV PISITLEATV GTVRFRIHKR FLKSTAAELQ VIEPRPSNHR GLEAEALAE  
 ILESHLDTS L DALFMKQGE VEAGISAVGI PTLTSALNAQ NGNTEDATED TALMEAVEKE  
 YLKFYTNSGK ANTRFLQFSK QVETLRDLD EANA EVAKLS SHVDRVKRLE IDRDQATAQL  
 PKAEELAGR KAELEEAQKV KAQATEILAQ FSRAEEQLEQ ATGAQKRRKE LRNKLELAQT  
 EVEKAEAGQE NLAQEASREA EEFLALSEKF EAARAAETLA VEKVKAARQS VAGIKNRDRK  
 EHLTVMLGEL DRIGQRLYEL RSVQHSSVRV SQRDIDALQK AITEVDIQT LVEAQQSIT  
 LSASTPTDIQ LGDDTVSATD AGTTVALDRE LTVVVGDVTL VINPGKTAAE SRTDFESAEA  
 ALAELLDQLD VSDLDQLRER FTAQEQRDAD IAELVREQQR MSGGTETTVL RAELEGLHVP  
 EDLDPSISVD DAQTQLNEAE ESRELAAEAH KHANAALDGL RSRPVDKALT VFNAQLAALQ  
 RNLSSAQVEL DRAVAETSDD EVDAAVQRCA EALAGVRVQK QEIEQVLAKT NPDMAQRLCD  
 AAENVRYSYK TAVSDATTEL VRLEGLIGVA AGAKERLDKV KSALTAAENR FESEQRRAHA  
 ARRLYALMV F YRDES RKRYA APFADKLSRL AASVFGESAD FDLDELKIS SRSIGPRTVD  
 LANLSSGGAKE QLAILTRFAI AELVAESSAQ GAVPVFIDDA LGSTDPERLT RISTLFSDAG  
 KDSQVFVLTC VPDRYNYVEV TQKHSIESLK TANALL

> RXA00194 (1-285, translated) 95 residues  
 VAGSSHTIEP EIYRGVSTLD EPSAAGWHG LKRNTIQLAG WISVLFMLGY NFGNHKGHVE  
 TIWLLVITAL LVIGLLIHLF EPKALPGSHH HFSQQ

> RXA00197 (1-1011, translated) 337 residues  
 VAAYLLGVVL FFLGIAVTIA LHEWGHFITA RIFGMKVRRE FIGFGPTVFA KRRGETVYGL  
 KAIPVGGFCD IAGMTAQDEL DPEDLPRAMY LKPWWQRIIV LSGGVIMNLI VGFLVLYGVA  
 VSSGIPNPDV DTTATVDTVQ CVPETQISAT ELSSCVGSGP AGDAGIEHGD KILAVNGQEM

ASFTAIRDAI LELPGETATL TIEREGTLFD VDLQVASVTR LASDGSEITV GAVGMSSLPP  
 TDVYKKYGPI EGVGATARET GDMISATWDG LKAFFAKIPG VVASIFGAER DVESPMSVVG  
 ASRIGGEFVE RSMWDMFMMM LASLNFFLAL FNLVPLP

> RXA00199 (1-1419, translated) 473 residues

MEDLEIFDRH LQHSDFFEDQG SIGLELELNL VDKHMQPALA GHAVLSHLDD EYQSEIGNFN  
 VEMNHPPLSV KGDALRRLEQ GITSRLGRVR AAATSENVNV AMIGTLPTIT PEFLEDPAWM  
 TQENRYRALS NAVMESRGEL VHINIADREQ IIHDFTDLAP ESTCTSIQLH LQLAPNKFAA  
 AWNASQAIAG VQAALSANSP LFLGRRVWHE SRIPVFEQQAI DTRTPELVNO GVRPRVWFGE  
 RWITSVFDLF EENVRYFSPL IAESRALSGT PMMKGKSPAL HYLNLHNGTV WRWNRPIYAP  
 GEERSHLRLE NRLLPAGPTP IDITADAAFY YGLVKYLAEE NRPVWSRLLF PDAEKNFQSG  
 ARSGLFARMT WPTLGQVNVA NLVQEHLIPQ ARIGLERLEV NKDLIDQYLG IITERAKSRQ  
 NGATWQLRSL NKLEAHGSMG GSDARKAGLA AMLQQYLQNO ESGQPVHTWA IGS

> RXA00200 (1-303, translated) 101 residues

HYAGVTEIPE YRISPDHGGK STLSPFQDWA GGGSMGTAEA VNNAYEIPSY LRNDWGRDWG  
 SIERYSLRTN SNGDAPKVAD INLETIQRSQ LWNPGHMKVD E

> RXA00207 (1-318, translated) 106 residues

MEMKLLKASQ VSTATVVAAG LIGGWLTARE SGIRPLGTIP LAASGALAAR SWNEKKGPVAV  
 ATGLLATYVG AFGLSHPLAK KIGAWPAVLT VTAGAAAIAY AVSDSQ

> RXA00211 (1-663, translated) 221 residues

MSFLIRVLLS DTPGSLALLA EALGIVEANI QSV DVVERFP NGTVMDDLVI SIPRDMADT  
 IITAAEEVDG VEIDSIRPFS GTVDRRGQIQ MLA AVAHQRR DITAAMEEMV DVIPTMTSG  
 WALVIDLKGP ITRIAGSLAA PEDDGTVPEN IVLKEARMLN PENDPWIPES WTLLDSSLAI  
 APIGKHGLAL IIGRPGGPDF LASEVEHLGQ VGDIIGAMLQ K

> RXA00218 (1-1140, translated) 380 residues

MSARNPFRPT FGVSPTVLAG RDSLLQSFKL GLAEGPGSPF RALLISGSRG MGKTVLLNEF  
 EDAAASQGW I TLRAYPDNSM VDGLVNSAIP EALQNLDPQ SKRMLSGVAI PGIATVTAIA  
 DPTKKDPTPT LISRLRELAT RLQKHGSGIL ITLDELQSAN VDLLHVLATA VQDLLRDDFD  
 IALVAAGLPE GIDRLQHEG TTFIRRAERI LLNPNVNHEDS VEMFLDTAAE GQRHMTSEAA  
 ELAAQISKGY PYSMQLTGSL AWARSTLDNS DTIQAEQVDA VRDEVVRRMG MQVHEPSLHQ  
 VPDGELTILY AIAQLSKNGE MVSTGDIAHL MGVPKNALSM QRKQLLSRGL VEVPKYGFNL  
 FTLPYMREHL LNSPHHRPIT

> RXA00220 (1-504, translated) 168 residues

MSAFHIRAEQ SHDISAIHDV TEAAFTGIEH SDGTEQDLVD KLRAAKALSL SLVAEADGEV  
 IGHIAASEVL IGGGVQGWFG IGPVSVRPDK QQQGVGIALM GSALDQLRAE GAGGIVLLGD  
 PGYYRRFGFE VVPGLVYPDA PAEFFMAVCL NAPAFPQGVV EYHSAFGG

> RXA00222 (1-1146, translated) 382 residues

MTPTADIWFK DTLAAHFTRD GDQTTFSYTA DYAGPPIATS LPINSEPVIT RSGAIPFFFA  
 GLLPEGRRLS SLRRNIKASA DDELSLLAV GADPVGAVAI FPHGENTQPA PPTVDFDDEL  
 DFSAALTESG IADPVALAGV QDKASARTIA VPVSDAILK LSPPEYPYL ENEAACYQLL  
 TKNKLRIELS KVEVLHDKHG RSGLLVHREFD RTPKGKIPVE DAGQVLGIWP ADKYLVSIED  
 IAQALTKVCA SPILAMRNLA FQIAVAWLSG NGDLHAKNIS IINKGRGFEI SPIYDIPATA  
 VYGDTTMALE IQGSKKDLSQ KKFLKFCTSI GLPEKTAMSV ANAALLATEN AAETILASGN  
 FDTRMNRDLA RVLKHRRSAW GA

> RXA00230 (1-720, translated) 240 residues

LIHEQDVQKL LNYITSHFGV DPERWFHPEG YQSIALAILD SIYSTGNRYT GVLNLVNRYC  
 GLRANEGSHP EADTATDLIE TFYRWGGVDE FVLKTNNRWR TSSKIHAPYK AYAALAAKV  
 LAGHSIESIS DVVGRFDSRE SREHSDIARE WLMITGQSSA LTWSYFLMLV GVPGVKADRM  
 IVRFVTHVLE RPKEISRHEA SRLIEEVADI MCVNYIYLDH TIWRFQSGRP YLQEDSSPFE

> RXA00232 (1-510, translated) 170 residues

MNDRAHQRIQ DIERSQALDR LGSYFADGYL DIDEFDTRTG AAIARTAGE IDVLFTDLPE  
 QQASTAVTPV QDDTEKELD L VLQRGKKLKQ IDSAIWAVVM VSFFLGFLVF NVPYFWVFI  
 LGGAASAGAR FLLKVDDADE KLFEELHSKE QSEREARLRI AAQRRRELEQ

> RXA00233 (1-417, translated) 139 residues  
MSVNEADLNA VEEQLGRAPR GVLDISYRSP DGVPGVVMTA PKLDDGTPFP TLYYLTDPRL  
TTEASRLEVA LVMKWMTDRL STDEELRADY QRAHEHFLAK RNAIEDLGTD FSGGGMPDRV  
KCLHVLIDYA LAEGPHHFL

> RXA00234 (1-540, translated) 180 residues  
MAKQKKTHKG LVPVSSRERA SESVSATRAP FRLGAVGIGA IALVVLLILF VIAIPVRNYF  
QLRSDIAQTE ASIEAKEQQI KQLES DLNRY QSEAYIREQA RLRLGVIEPG ETAFRIVDPA  
LDTDTSVTSD GNEEKPLGAW YENLWDSVTK PEALGEEEEIA PPAVEGEVPT LAPTEEATVQ

> RXA00236 (1-726, translated) 242 residues  
MVISFVGWAL SFMDGTAPIR QLQQIPEDVP PARGVEVPQI DTEADGRTSN HLRFWAEPIA  
QDTGVSAQAI AAYGNAELIA STAWPGCNLG WNTLAGIGQV ETRHGTYNGK MFGGSSLDEN  
GVATPPIIGV PLDGS PGFAE IPD TDGGELD GDTEYDRAVG PMQFIPETWR LMGLDANGDG  
VADPNQIDDA ALSAANLLCS NDRDLSTPEG WTA AVHSYNM SNQYLM DV RD AAASYALRQP  
AI

> RXA00237 (1-378, translated) 126 residues  
MKLSHRIAAM AATAGITVAA FAAPASASDF ANLSSTNKEL SPQYNWVACG ILEGGLKAAG  
VLEEGQYNRE LAEAI AAKGE GFWTTQFPQI GDWNEDQAAA LADRAQTCGL VKADTYLSEL  
SSN FSS

> RXA00238 (1-369, translated) 123 residues  
MKKLR FATIA AATVALTASL TPSASAQDFN QIIDNFDCGI LQTAIYTTGL AHENSTRSEL  
AANLRNSAAV GQLDFPLNIA ATGYSERIAN RALTCGIVKE DPQDFLSQLQ LLSSNLSSSF  
FTA

> RXA00239 (1-585, translated) 195 residues  
MRVVVVDPKH PVLVPSFLEA VLGRGEPVSI DPDPFPDIEK WGIKTSTSAS WFIIAKPQST  
LLIDAPLNPL HEAVGVMRAA VGRGEWERTQ THESLIPYLE EESQEFIEAI HGGDDEHMK  
ELGDVLLQVL FHA EIAARQG RFDIFDVAAS FVAKMQSRSP YLFDGSTGIV DTDEQQLRWA  
QGKAQEKLS EEGRR

> RXA00240 (1-210, translated) 70 residues  
MGIFDEAKKK ATEFLDSDSG EQKSDGLLDK AADKAKGLLG EDKADQINKV RDAVDERIGK  
NNGGEENPAN

> RXA00242 (1-1203, translated) 401 residues  
VNEWRTVSLV DSTALTVIIS VAVFTSAVAL LGVVKKRSRW RVLGALISSA VLTSGAWVVI  
EKLWKFPDP NPWTIYLSAG LAVFPLLSIL FRTGRTRILM ATLTVIALVN TAAVINVIYQ  
PYPTLG SFNP VPTAVSMSYA DFESQTTAPT MDDREVGALV QVPLAGTTDD STSGFDARDA  
YAYIPPAYWD NPSLQLPVLV LMPGNPGQPD QWFSSGNADQ TADNFQATHD GISPIVISVD  
GTGSFSGNPA CVDSDAQSVM TYLSHDVPML IKQKFRVNQD QRTWTIGGLS YGGTCALQIM  
TNHPEAYGSF LDFSGQEEPT LGTRQQTVDQ LFGGDEDAFK AVNPEDLLNQ AISSGAHTYS  
GISGRFIAGS NDKSAVSALS HLDNLSNQAG MSTTFDTVAG G

> RXA00244 (1-636, translated) 212 residues  
MNDQLWEGDT GTLTFGSRKA LVQLLKGP MV NALQHVEVWR AITTDQDALN AVLNNLFLEL  
VLDEDAGVAF TRPANGRQEV LVGNKTEAM PKVLR TETLS HFDTLIILIL RQELTMAPPG  
ERVIVDREEI REQVLLYRVD EERDEAKLAK RFDAAFRRIV DYSLAKKTET PERFEVSPAL  
RQIFDADTVA GVRAEYEKFN KAAHDGNEEE QK

> RXA00245 (1-1485, translated) 495 residues  
MTVVSHALGF KRFRQESLEL SLLRSDNFPV VLAVVAQYFP QGAIKAPASE LYQLLSDDFR  
VLREEGFELP KSPSDYVSDW VKSRWFVRRP GSSQTGETVE PSEELLAVLD SVQRWDNPHR  
SISASRIESL TQALQTLALE SDPSTAKRLA ELERERDRIE RQIEAVHAGE FEVLTTVQIG  
DRVADILDLA ASIPADFAV RHELSDLNRK LRRQLLDPED SRGDVLEEIF RGVDLIGDSD  
AGRSFNSFFD VLLDRERSSL IDR WIREVLG RDEAIDLDSK LRTGLYRIFR DMEDASFEVN  
GEMTGLARSL RHYVTTEEFA ESRRMIQLLR DTRSAAAKAA EAGEVTSLNH MDTPLVRIGM  
DVR SIAGLKL KNPGEERVED LPEPV EEQEL DTEVLMEQIR ASEIDFEELE EAVSLVLAEQ

SHATITEVLE HFPATQGLAS IVGLLYLAMR DGVPTGRAQI VEWESDDATH RRRITGWQFI  
RGLNSEDLA E SEMDK

> RXA00247 (1-927, translated) 309 residues

MQTLIFIAIA GVAAQLVDGG LGMGFGVTST TILIMLAGLG PAQASAVVHT AEVGTTLVSG  
LSHWKFGNVD WKVVVRLGIP GAIGAFAGAT FLSNISTEAA APITSLILAL IGMNLVWRF  
KGRIRRDYSD RPHSRGFLGG LGIVGGFVDA SGGGGWGPVT TSTLLSLGRT EPRKVVGTVN  
TAEFLVSLAA TLGFVVGLWD DLVANLSAVL ALLIGGAIAA PIGAWMISRV NATVLGGFVG  
TLIVTLNLPK VLNVVGLDFI PTGLIQVTVL LIGLPLTYLG FRRYRKNLLN ETISSEVVSE  
PKGQKIKST

> RXA00248 (1-723, translated) 241 residues

MIPLITLSHG SRKKSAAAGI TALTHEAGRM LETPAVEAHL ELAEPQLDQV VATLSAEGVT  
RAALVPLLF NAYHAKIDVP EAVKDASEKY GVLLVGPPL GTGSDVASVL AQRLSADAPT  
DAHVILYSVG SSHVSANESV IDLAHTIALL TGFSVEVPA TGGPGAGGAG VIEVASKHKA  
VHILPLFVTE GLLLDRAIDQ SANIAAATGT NPTYSEPLTT DLAPLVAARY HAALSALLAH  
I

> RXA00250 (1-216, translated) 72 residues

ALGAALGQFD FVRNNIDLIF LLIVFISVVP GLVGMARKLA DGHKQANTEP QENPAVQTAP  
VKTQEAQEA QN

> RXA00252 (1-243, translated) 81 residues

VFAGGVDGVA GVWSVAGAGV DVDDAAGCRA EGGQELATQL GRDNDVEIKV CVPFGHTAGF  
DGRVTRHRRG VHQRHVVVEV F

> RXA00256 (1-771, translated) 257 residues

MEMSLKTRRI FGALAVLSLI SFSAIATPAA SAQELVVSTS AVNEFGVVTS DITAEQILQA  
QDLIAEMKQS EDIYEYFGAL SDVEQRSIIA AVKENPYLIE NESPRMRVQS ETPDEETPDK  
KKPSKTYKLY MSILEMMSCI NLVDVPSCAQ ALKAANIAER EAKARYPDSV TNGKGDALRH  
CAWSALMTIR IGKDAARIG NAHETVVRGE PEEREMDLIN NALGRDGER FIINGDETGA  
LSTCVSMANI GLLHTLL

> RXA00257 (1-456, translated) 152 residues

MKIKKFSITA LASVLMITGC ATNHSSPLYS YLNASTSTTV EQVRLSDLYG EQWTEFALVC  
PYTTKDEVKE ELGIKINTYL TDSTDDSSND IVLRDKDGSY DWIYFNRFDI VYLCNGSAEN  
LKIYPIDSVL EFEHRDDYGT WKLSAITEPG NQ

> RXA00258 (1-672, translated) 224 residues

MRHTTSATST TSIIKRAMTI SAAVLIASAV GLTTSASSLN TLSATSPESP DQAATVSQAE  
SDSELDDGMK KLATKILNRA DNAENNDGTG KNLNNDKKL NTKQPQRP AE KVAQAIELSL  
DTTNAEKPD KSFHHEKPVN AYVTSVSYNK SNTWTIKPS DSAVNTPTND AERISNIIQE  
ARDLGLSDDE SLTQQIAFHA HAANYLVTEW VLRGYQLANP KVLP

> RXA00260 (1-1176, translated) 392 residues

MHSDAVLAGA SIRAKIGALA TIYGAQNLEN VIHSVSFTDR RISPQGQLSK ELFREAWSAN  
LLIPDPSSDV EAFWSEKNS TELAGGIFVE KMLFTVPDTG RSNNRVQSFS EELRNHISLK  
DMYSTQREEL LDLAYELMVG EAVRFANFRL YDQNLPLTE ANIDKLRAHL REAAASASLG  
VLYLMVWRSV KDAAAHTKH TRMSKENATT HSVTKVSIFV DQLLSGTFPC SKPFHESSQV  
PLSEATKIVF NLIMESPPME TEPSVLRNSL QEHSWELLQ QCDEKIPDRE FLMEWLYQEQ  
TWTAEQFFDA LAMVSSEFR ICAPGCAHQV SADIATQVLE FHDRVSFHDD RKSAMLAEEA  
TIIGNKIGSQ ARAGDFVLGE VITKLQNIPEV

> RXA00261 (1-429, translated) 143 residues

MYSKDLILLF LSEQDSSYEC CVGLLDGSDG RDYIEKLLKG RKLKNHFLEW EDINKADVAR  
EEIYKQQLVH LVFVTALSTP GEISFVFPQG SLMSATLEED FAALVLEER TSFRPDLSHL  
WSLPVGWVAP GLEGFVERNS EAA

> RXA00264 (1-378, translated) 126 residues

LLVDSGDVQL EGVTVETPTQL AYTGINETQL RIRNIGTPA RTVLLGGEPF TEDIVMWWNF  
IGRSHEEIAE YRKQWQAEAD RFGITHGYIS HHKDGLTRLP APELPNAAIK ARKNPAPTAR

PETRID

> RXA00267 (1-270, translated) 90 residues

VSVAVITRIA SSPSFIAIVA IIVAAIALFV GLNSRVGTKL VDQPVVFTQE QIDQLKELKS  
RDQEAIAAIRQ AQLWSRGSSS EAVAEAVRKL

> RXA00271 (1-990, translated) 330 residues

MFSSRSKVL A SIFTVGALAL ASCSSDSSDS STSTDAAGGD SYRVGINQLV QHPALDAATT  
GFKEAFEEAG VDVTFDEQNA\_NGEQGTALTI SQQFASDNLD LVLAVATPAA QATAQNITDI  
PVLFTAVTDA VSAELVDSNE APGGNVTGTS DIAPIEQQLE LLQQLVPDAK SIGIVYASGE  
VNSQVQVDEV TKAAEPLGLS VNTQTVTTVN EIQQAVEALG DVDVIYVPTD NMVVSIGISSL  
VQVAEQKQIP VIGAESGTVE GGALATLGID YTELGRQTGE MALRILQDGE DPATMPVETA  
TEFTYVINED AAERQGV EIP QEILDKAERV

> RXA00272 (1-372, translated) 124 residues

MPEPETSTMG SIQKSGEWLV PAYSAYKLNG ADLFLDIRHA TAAAPVITFD VNMTMGSMTL  
IVPPGVYVEV QMASKNWSDF KVQTTNPLPG APRVFITGVA RASGLKVFTK HPHEPFGFWQ  
KMFE

> RXA00273 (1-1113, translated) 371 residues

MSLKLNSRRL ASIAVAVAVG VSGVAAVGAA PATAQQVGAG TPIHVNLDR TVVDPVTGDI  
TFHFTDGT FV TLKAGVDGKD GTDGDQGVIG KDATIVDVAT ESNGDVKLTF SDGTVV TIP A  
AKDGVDEGEG KDGEDATVVS TATDANGNIV ITFSDGSLV VANGKDNDG SDGQDGADGE  
NGKDGANGEN ATIVDQIAND DGSITIVFSD GSEVTIPAPA KGATDELAQC LLNPKMLLLA  
AIPAAGAIAN AVAPAIPRVV EDVRAQFNLP SLNPQFDQWL YNATKIDIDAG LLISGATGLA  
VLSVLADDFC GDIDADDNAD GDVAAEKPTG SSGLGSSEQS EKVDGDDDSV IDTETDADLE  
VEEDPELVNA G

> RXA00274 (1-2610, translated) 870 residues

LSLNLKKNSA RSITALTVAG LGLSIVPAAS AQDVADDTN SDSTRDAICA AAPLVAGAAV  
GVGLLSQQPE FQHMVSQIQS DAQRIGQDLS NQFNNSLESL NIGLNGVHG PQQNAVQGID  
LTEAARTMAG WNDLAAQVGQ TAGPAIGAVA GTAGLIALVD YCWLEGFDFA GGSSGTDGEN  
GVDGQDGT SI TITEIKTDDD GNTIVVFSDG SEITITNGKD GAAITIVNTY RDDEGNTVVE  
FSDGSTIVID KGEDGKDGED GKDGEDGKDL TVTDTYINDD GDTVVELSDG STIIVKKGTD  
GKDGADGSDG ADGVSITVEN SYVDADGNTV VEFSDGSNVT INKGEKGDGK DAGADGEDGA  
DGESITVVNT SNDAEGNTLV ELSDGTVITI NKGDKGDAGA DGEDGSNGAD GESITVIETR  
FDADGNTVVV FSNGTEITIN KGEKGDGKDT GEDGKDGLTP YIGPDGNWWI GENNTCTAAR  
GNDGKGDGTP RIGDNGNWWI GIVDTGVPAR GQDANGADG ANTVEIINGY WYINGENTGV  
KAVGNGTNG ADQDGENGT NGANTVEIIN GYWIYINGENT GVKAQGP KGD TGDGTGAP  
GEGSGNV DIE IRESSYPGGG QATIIILDQF EYEIPHTVIG DNGNWIYIGEK DTGIPAQGGT  
GTPGEDGLTP HIGDNGNWWI GDTDTGVSAS PTPVGEAVAG VTDVVFNTSD EPKTITATIN  
GEEYDYTLPP HSAVVFYATG SPMAYSLPNA SGLTVIGTEE TPGFTTIRFS DHSTVTIPHG  
RDGTNGTNEL TVRMVSPRTS VRTETGGS AK RTLVRQPLA VAATLVPAMT ASRSQVMILD  
SQMMLRPVQR PVQMPKVLLT KGHRTTMTD

> RXA00275 (1-459, translated) 153 residues

LDKRRPELSD DFIKAFDDFL HSFACLDKTT ITLLAQSPVR TSTGYTGTFI GIPNNEPLSE  
EPTPTIYIVH DNHTGIIHSY PARMINKSE LGSAEMIHEA IWGSPHQQL ISWYETYYTN  
IYYGFNP PTE PHKSLEIFAQ DFCLTPPEKP PFF

> RXA00276 (1-342, translated) 114 residues

MDDLSSRQDH EAYGTYNPDN GVMPDHVIVP SPYEPYDDAA PIDPFDYDED LLDEIKEERA  
AHAVDAQVTE TTKADADVAQ LATAIDEQNR PTKSCSLRQI ARNYS PGWIS VAQN

> RXA00279 (1-1386, translated) 462 residues

LDTDDSPDHW LDPLTEKOTS KRTLVSIVQ ETFGQPIFVA RKIWA FVNTS PGRMTLM TII  
ISIAIFAAGY AMSVSSDTRQ SNLDDLITNA EPVSYNAHVL YTSLSVADTT ATTGFVQAGV  
EGPVNRVKYH TAIDRAAVAA THTAASADSS NEHLMELVLE IQRQLPVYTG LVETARTNNR  
AGNPVGVAYM SEASAMMRNE ILPMASELYN LTSRAVSDQQ RSVTGPQWFP LSGLLAALAM  
LIVAQWWLMR ITRRRINKGF ALATVMMMTA TLWVSAANWA TWQAGTKGFE EASGPLNSMT  
TARIYAQQTR TTETLSLVRR QSIQSGSGTG TATINQIKRA LDEYETTAQS QTPEHQQLIT



AIRNAIAAWT ADHDEFTVLL ASGDYNGAVN AVLNKDEEGQ TSFDELD TAL AELIADSRSS  
MRSYIQSGLQ ATELVSVMM ILSVSVLAL WVGIRPRLQE YL

> RXA00282 (1-789, translated) 263 residues  
MSRDDQTNNN GEGDDTSREQ SWDQSWQNLN KDSQYGPTSH PEDAPGGFQG NGQGNRSGNA  
QGNGQGNGQG FGPGNASGYG GYGQYPQPTP YQNSYQGYGA TSPQNDVALE ASNGKVDIMR  
AIRFGFKATF ANPAVWILGT VGLGLAFMIV SGLLGYSFL IDPNAGTTTS GFSVSETLLN  
VAIGIITFAI TICVMRGALL SVDGHKVRFG DFFKPINVGQ TVILMVGLGI FGIILGTFTT  
FLTQNLVSFN DAAGTVEVNN SGL

> RXA00283 (1-1128, translated) 376 residues  
LALAF LARYD ALIMAFVAMW TVGFMTWRAR YRRGFRDRIG FALVDM LLLV WPIGFAFVAW  
TGASWLT TGD LFAQFTSTDG NAAIIAASGG GAIGPQALFD ASVRTFLISP ALLLVAVVAV  
FFAYRRRDPE PIIP LALIGS VVFFQIITYS LGSTFGLLRF FLTALPLTII LLFQIIPPRH  
RFPSLRPGAC YRDRVTGKYV PKTITGV LVL AIFGGTGITL YGMSSANWAP QEYAIQELVF  
NMGSPSQDAV HTLNFTSTEM DVADFVDSL N LGDGEVLLST TYGFAVL TAS NNQKQFIIPS  
DEDFITTLNE PAEHGVKYIL ALPREGRGAT DPINLRYPDM YETGSHIATM EIEFINQGGQ  
QPNWR LRVRL TTPEQS

> RXA00285 (1-513, translated) 171 residues  
GTELGA LLLR VLNREEMMDR FARELGFFVD KQLEEVERIN CHHNYTVQEE HYGETIWLTR  
KGAVLADEGT PALIPGSMGT ASYVSGSGKN AEALRSAPHG AGRMYRNQA KKRFTADLD  
SRMAGIVYRP GKEWIDEIPD AYKDIDQVMA DAADLV TIRH KLRQIVNVKG T

> RXA00286 (1-564, translated) 188 residues  
VLKIPRL LLLR RVLPVLITLA LLCGLVLAWF IYPAKAEPKK DDVVLVLAGS SDGRHEYGAE  
LVEEGYASNY VVSNSPSGSKD KVG YAH CAGK SRPKNAESFC MDPYPVITSG EARTFNELAK  
KEGWESVLV TSRTHTQVRV TMFDQCYTGD STVLNVNSLG RTGLHNAV LH EIGGFIKFWI  
TAPCADTN

> RXA00294 (1-429, translated) 143 residues  
MSISNAILRG VSGAYILQSG YGKLGLPNEA AAGIQGLAAT GIPAVADMDS DTFGKFVAYS  
ELGIGGALLA PFIPSRLAGL GLGAFSTGLL AIYFRNPAMT QDDGIRPSQD GTGLSKDLFL  
AAIAGALVFA PAKKRKKAKN KSK

> RXA00297 (1-912, translated) 304 residues  
MGFTVV FIVI GIGWILGRRD TLGTHAQKPL SLFVYYVATP ALLFDRVTKS DTSTIFSLNF  
VVIALSALIV GFLFFLLMRF VIKRTAAVS IGMLAASYAN AGNLGIPLAA YILDDFTVVI  
PVILFQVAFY APITMTIMEM LTNNKSTNLV RNLLVTPLTN TMVLAAIAGI AVSLTSM SVP  
VVIAQPVEML ANASVPLALV VFGLSLSKSK ILEKQVSRR DVFTAALFKN VLHPIVAGLL  
ALAFGMEGTA LLSAVILGAL PTAQN VYTYA LRFRTAESMA RDTGVVTTLI SFPVLVAVSI  
IFGS

> RXA00318 (1-210, translated) 70 residues  
VSDVTVG DIL RILDEAYPPA LAESWDKVVL ICVDPTESVK RVGLALDCTQ ALADKAVDMG  
LDMLIIHPL

> RXA00320 (1-180, translated) 60 residues  
MAKEDLKWFY DLATGKVFQG KVS GFETRMG PYDTEEEAHH AISIAAARTK AAEIWDDKED

> RXA00321 (1-1815, translated) 605 residues  
MGQHLEVE TK FSVSESTQIP QLEAIAEVDH IDRTEIHQLS AVYFDTVDLR LTRAKITLRR  
RTGGNDAGWH IKFPGTIGRR EVQAPLDGEG ATETLPPREL LGHIRALIQQ RELTPIAQVD  
NERHMSYLAD EDGAVIAEFC DDHVSTVSHL PGGVRKQWRE WEFELADGTL AEEAISVLLQ  
SAQSVLTAAG AFVSNSPSKL VSALDES VN H APKPPQMAQL DKNDPARGVL AAIAANASKI  
AEYDPRVRAD EYDSVHQMRV ATRELRS HLQ TFEGILGGED YLNLEKELKV LANILGRARD  
AEVVEERLSN LINTEVGDSI EEETKKELLE DLGAEYRREH ERVVRALDND RYTDLLQALE  
NLLVDPPLIT EVEEPEATEA PESAETTEST DVSEATEEAD AEAESVEEAT EQEESADAPE  
SADLDALDEE YSPGSQAPVE EPKEPKKVDA ALV LLEHL DK AHVKLVKLEK KARSQWDDL S  
IPMLEREENF HNL RKA AKKL RYSAEAVGKA TT VETKKLYK ACSGLQSVLG DYQDAITSRN  
ELLRRAQVAR RQGRDTFAYG ILYQHEQTLS REYLTGYSDA FKSVEKAYAK LAEDTAKRSK

KNKRK

> RXA00322 (1-1104, translated) 368 residues

MTLSHFSDNV TDAQDSYRQI LEESIISHLG FCALRGWTPA DLRHEFSADI DPLLFHALPE  
IAYSCSDEMY TLWVNGTRAA ETSHLPVMTL EKILTELPKL STLPDWAMLA ELHALDNQDT  
SPMTPAQAKA HHRITALLKK AESTNFEEEA EALILKAETL RQYRIESLL INSYDQDVQA  
RSSTIRASRV YLEAPWIRHQ YKLLNAIARV HSSEALLITK SGICTLFGEQ DDVAHIIDLF  
NSLNRQRAHF MKTSAGARIA QLNGETSSYR RSFMISYASQ ISRLISAKE DAFNELAGQA  
PLAHSAIVPV LENRSVRSKE ALKETFPNMR TMTFKSTNRR GIIDGFNAAN ESHLGGESAS  
LEDSTFMF

> RXA00325 (1-645, translated) 215 residues

MTSIIASNSD LSEALRTHTA QAHEEAHST FMNDLLTGKL DAQAFIKLQE QSWLFYTALE  
AAARACAEDS RAAGLLDPRL ERKETLEADL DKLHENTTWR DNVTATAATA SYVERLESIE  
AAKDFPRLVA HHYVRYLGD LSGGQVIARLV NREYGVSEEA LSFYCFEDLG KLKPYKDNRYR  
AELDALELTA EERAALLDEA SDAFRFNQV FQALA

> RXA00326 (1-480, translated) 160 residues

MAIKLSIDLS DATFAELSAV IGYAHQLGVD ADEKLTFEGT VLNIEFDGDL QFDDVFDADF  
EAEIELDNPR EDGPIYADDL IDEDEDYRAQ TKSQINDEVI NEIRDGISSF VDGIVNGLGQ  
GRRGGRYGDF GGPRGPRGPR NDGPFPGFPG FPGYRGPRF

> RXA00334 (1-336, translated) 112 residues

MAKLDDNVQI ETVNVSFEAG GRTNWHTHPV GQNIIVLSGL GIYEAEGEPA RLLEPGDVVF  
AAAGVRHWG AVSGAPMFHV VVNLKGIDGE TVDWEPPVDE EHYRSVSAEL QR

> RXA00336 (1-471, translated) 157 residues

MAKPKRSWLD GPEIPADFDD PDAPGRWPGE KLGLPQEGAG SLSSVARRIG GVCVDWGVSW  
VIAIVLSNFT DVLGDVATST LIIFVILGWL TGWIFARTPG HAVFGMGLAR VDAEERVGW  
RALVRPLLT LILPAVMVDA DGRGLHDKAT GTAVIRG

> RXA00337 (1-525, translated) 175 residues

DVEGGVEKHS LSTADIAARA HAHMKSHDVL GRQTPPQPE GGVAARLGGI AWTMIHKQML  
SRDTKGLDIT VLSTIPEGVG LGENSAMDVA LALALYRENI EEAPTKARIA DICSQSAFMF  
SETSVLRARH TEALRGETGH ISVVDYADGS VTQAPHPVSR SAGLSAFVAA AQTET

> RXA00338 (1-783, translated) 261 residues

VGITAGRPIA TRLLGGMDKW GVHVLPKDA YLKKMLFDAG AGAIGDYREC AFEIEGTGQF  
RPVEGANPAE GDVDKLFKSL ELRIEFVAPR NLRARLTSVL REAHPYEEPA FDIVEMHSAE  
SLENATGLGR VGELPEPMRL ADFVQQVANN LPVTEWGVRA TGDPEQMVS VAVSSGSGDS  
FLNDVIKLG DVYVTSDLRH HPVDEYLREG GPAVIDTAHW ASEFPWTSQA QEILQDKAPQ  
VEVDVISIRT DPWTMSARAV N

> RXA00339 (1-717, translated) 239 residues

MKLDPSLHKT LLQLATTLRT QNANSAPKTT PEQEAVDKAV AELSRNRDAA SAGQMAVDDM  
ENEILRIQSD ERKLRRRKD QDQALGAETD EERRRDLNHD VYTAKSRIAD LMSELQEAHN  
EIHALRNNRD LAQSRVKDTE RKVADARAAA EAAAAATPEG EDPAVVIAHL EEKLPSEALA  
EFHAQRLNG VGAALFNRS CSGCAMVLP TGISDIRNTP KDEVPQCPEC GSYLITDIS

> RXA00342 (1-429, translated) 143 residues

VADAPGAVKQ GAQDYAQLLG IQSGHIVQEI GWDESDTLI SESIEDAIGE ELLDEETDEL  
CDVVLLWWRE DDGDLVDGLV DSIRSLAENG RIWVLTPGIG KEGALAPGVI SESAQLAGLV  
QTKAERLGNW QGSCLVQRGN KKP

> RXA00344 (1-579, translated) 193 residues

MSFGLGLSVL FIHLYPGRSS TAFSLLTGQI VGVSSSSLWI LVAVTIVVVS AVVIFWRPLL  
FASADPIMAQ ASGVNVRFA VAFVVLVGLT TSQSVQIVGA LLVMALLITP GAAAVAVTAN  
PVKAVVLAVI FAEVSAVGGL LLSLAPGLPV SVFVTTISFV IYLVCRLLIGW LRGRGAQRDE  
DAYRRRQHDH HPH

> RXA00349 (1-1059, translated) 353 residues

EKILDELEQS PASYGFPVAL LGWPMMGGAV AVLLGGGCQV SLIAFITAFI IATTSFLGK  
KGLPTFFQNV VGGFIATLPA SIAYSLALQF GLEIKPSQII ASGIVVLLAG LTLVQSLQDG  
ITGAPVTASA RFFETLLFTG GIVAGVGLGI QLSEILHVML PAMESAAAPN YSSTFARIIA  
GGVTAAAFV GCYAEWSSVI IAGLTALMGS AFYYLFFVYL GPVSAIAAIAA TAVGFTGGLL  
ARRFLIPPLI VAIAGITPML PGLAIYRGMY ATLNDQTLMG FTNIAVALAT ASSLAAGVVL  
GEWIARRLR PPRFNPYRAF TKANESFSQE EAEQNQRRQR KRPKTNQRF NKR

> RXA00353 (1-693, translated) 231 residues  
VGRSEFTNRTF DLPFPMVVYP DGVDQHWNDALGLDENTRH LGIDDVGFFV KLATHLGNTY  
GIKRIFIVGY SNGGQMVLR L MHEVPKMLSG AATIASNMPV AENTLPQVKT FKTHPVPYLA  
MAGTADTFSP YEGGDAGIGR EHRRGVGMSA FDSAAYIAAR NGLTEHRHDV IDDVVSIDTW  
DGENPVEFWT LNGIGHLVPS GKTYPEFLGP STTSVIAAEE IGKFFDGVRR R

> RXA00355 (1-126, translated) 42 residues  
IAFGRAAHM KQQGQSGAFT VLEVAPYLLS PENLDDLIAR DV

> RXA00362 (1-960, translated) 320 residues  
DEKTGWTAER SATLVAGNSG LGVALPPNST MFIILALPAA AASSASQVYI ALACGGAYAV  
LYRLAVVFYW TRKDKIPATP DDQRVSFGEA MKTGWRSPLI FLGILIPVIL TIGPLSEWLK  
THGVGESGVK SMSIIVWVPI LITAIALIEG RKRIANNMAH FRVQISKDLP QFATVGISLF  
SALAAANIME ELGVGPQLSN WLDSMDLPKS VMVIIVCIMC IVVATPLSST ATAAAIGAPA  
VAALAAVGID PTVAIVVILL CTSTEGASPP VGAPIYLSAA IADANPTKMF VPLITYFVVP  
MILLAWLVGM GFLPVIVPTG

> RXA00373 (1-339, translated) 113 residues  
MDIQQLDAET TAWKDSLLRA AQEAGFHFEP PKLFEDFETM VEQYKQAAAS DPDIDVTDIQ  
QMWGIVVGEY LREKMGMEWV VITDDYGTDL AILATAPNGD HVYSCPIIVV GKR

> RXA00375 (1-501, translated) 167 residues  
MFPSPATGGD DINRRPLNEP NADATTIPTA LKVVFWMFLFA TAAFMIFTGL VMYTAGYTGP  
DDVDESYKAV VVNNQEFIGG INAFAGVVIA ALTSQLPKGG KNPRRLLLAI MLLVLLTDLL  
SFATRAGGFA LAIIAVLLAL EALLMFRPAV NDHIDRNHMA RVMNREK

> RXA00380 (1-621, translated) 207 residues  
VRLTKLAATI GCVTLISGLAL VACSSDSTAG TDAVAVGGTF QFHSPDGKME IFYDEADRQQ  
LPDIGGDSLM EEGTQINLSD FENQVVILNA WGQWCAPCRS ESDDLQIHE ELQAAGNGDT  
PGGTVLGINV RDYSRDIAQD FVTDNGLDYP SIYDPPFMTA ASLGGVPASV IPTTIVLDKQ  
HRPAAVFLRE VTSKDVLDVA LPLVDEA

> RXA00387 (1-813, translated) 271 residues  
QNDPETWEDY ELRVNHPLRI EGDRVYLQGH GFAPTFTVTW PNGETRTQTV QWRPDDPTFF  
LSSGVVRFDP PAGMPDLYE RRQNQLAIQG LFAPTAEWEG DNNELLTSSY PAMRDPVAI  
DIYRGDNGLD TGIGQSLFSL DSSLMHSGVL QKIERVNLQI GDTVTLLDDGT TVSFDGASEF  
ANYQISRDP QNWVLVTTVI SLVSLVGSML IRRRIWVRF YPQENGTRV ETGGLARTDR  
AGWGGEYEKF HRELLGLKEE DEDEEYFDHD D

> RXA00390 (1-405, translated) 135 residues  
MSTTREIAFL IARILLGVIL IAHGWDKFAL TGLEGVTGFF DSLGIPAAGI AAIAAAVVEL  
LGGILIIILGV FTRIVAAFVA IDMLFAALFA HVSSGIFVTN NGWELTGAIG AGALLLIAGV  
ASAWSIDGVL AKRKA

> RXA00392 (1-864, translated) 288 residues  
MWVGAVRQI ASVFLTLRLM LPLAARNRVA RGRIPETGDV VISLTHGKR INYVHFTIES  
IARGHVKAPI VLWLDKPDFD APWPATIKRL VARGLQVRCS DGFGPHTKY WNQFREIHGT  
GVRVATVDDD MIYPEWFLQR LLFIGDLRMD AVVAYRAHRI ELRDDRMPLPY VKWSAADTSK  
ASFLHFATGV SGVLYPVTFI DYVVSQGDVF LENCKRADDV WLHACALRSD HPIRQVYAQP  
RHFAVVPPTQ VGALVVGNTL MGGNDEQIAK VYTDEDVAKL VAASKNED

> RXA00394 (1-333, translated) 111 residues  
VSESNTPNLQ THQAPELNPE LQKAARKNV L IYGLARLLLF VVLTLLIHS L ALLISAPVPL  
VMSAMLALIV AFPLSMLVFS KLRMNATQAV SQWDAQRKAH KEWVRSELAD R

> RXA00395 (1-300, translated) 100 residues  
VGRLLLLIILV IVAIVLLWKA FKPSTWKRNA EINQGGAPRA VKGPDDDEEF LWNIEKNRKF  
QRRADEAAQL EEEERLKRAR ERYAKPESSE EGPEKPTEDS

> RXA00396 (1-471, translated) 157 residues  
VTEIAENLQR LGIELPDLPA PQYSYVPFNR QGNTLYVSGQ ISRTAAGDIL AGRVGEDATL  
EEGIHAAEVA TINLLARIHQ SIGLDNVAQI LKLNWVNSS DDFIQQPQVA DGASQLLEAV  
LGEAGKHART ALPTNTLPQG ALVELDAVVA VTEAAEV

> RXA00397 (1-540, translated) 180 residues  
NLHSSNRMLF PGPPVDFFIN AETRCIQLDA GVAVKKDGVV LGTSDMARSL PRTAAGQEAY  
EYFFKVVREG IIGQLRPGVI CADVHEATLD YLSPQLPRMI DIGMLGADTD FNTIYKRNV  
GHLMGKQESF ANELRPGYKH ILHHGSYGAA EIPWRYNGVA IGTEDLWYIG ADKTYILSOR

> RXA00398 (1-681, translated) 227 residues  
YLPEPFTVED YTARVEGLEV AGGAIVSGSF QAFDQGYLKD ALAVLGPGYV GVTQIPADTS  
DQEILDLDKA GVKAVRLNLK RGGSGAGLDDL ETLARRVHDL AGWHTELYVD ARELDELEST  
LASLPAVSID HLGLHRDGLP ALLRLVengi KVKATGFGRV ELDPTEVIQA IMAVDPTALM  
IGTDLPSTRT KRPFEDADLD LIAETVGEDH VDNVFWNNA AFYLGDDQ

> RXA00399 (1-315, translated) 105 residues  
MSHNDSNFA RRALNWLROG YPTGVPRHDT FALFYVLERE LTEDLNELA ELLIAEGENN  
GLHDNPITRE KIGKLITHVH SQPPEDEDID RIQKKLQAEG FPTRN

> RXA00408 (1-447, translated) 149 residues  
MNPVSPKLTT ARYLTRIPWL LISAIVFGVL GVVFSSWFYA GVIVVAVILI WQLWLIPQQV  
KRLGWLETSO ELLITKGKLW HTFTVVPYGR IQFVDVTAGP LERAFGMKQV QLHTASASSD  
STIQGLPVAE ADALRERLAI KARERMSGI

> RXA00409 (1-1413, translated) 471 residues  
MSSLEGFRKV HRATPFLRIW TIIVAVLAAF AFNSGASVLS FIWGVVTGEY GFAVLPIILLT  
VGGAVIVVAL AWIITGIWWK AVGFRITNEE VQLQRGVISK DLRTARFDRI QAVDLVESFI  
ARIFRLAEVR IETAGGSDSA ISIGFLRKSE AEALKRELLD ASQHSVATTP AGVPAEPGVG  
ETVVVESAGD VLVQPQIPVQR TLASTALSLA TIITAIGIVI LLFVPFGVSI AVPPFFVGMVP  
AVWNLIDKSW QFTATQRNDV LHVSYGLANR RKQSIPLGRI HAVKLKQPLL WRLVGWWTVT  
VPVVGYGDTT QGGTSKILPV GSKELALKVL EAVGPLNSAD IAESADPSHM SRPQYTPPVA  
ARLLTPVDRT RQGVTLIGVA GAPGAVVHE GRFMPRMSVI DTSHIQELTL KHGPIQRILG  
LSTVVFNLVQ GPVGMAASDL SAADGKELLN ILRNRKLPAL ESAPLGQNSL D

> RXA00411 (1-675, translated) 225 residues  
MNEMILAADW NRLGPTFQTA IIDTLLMVII TMVVAGLLGL VVGLLLYTTR AGGILKNKVI  
YTILNVLVNF VRPIPFILIL AAIKPLTVAV MGTSIGRDAG IFVMVVAIF SVARIVEQNL  
VSIDPGVIEA ARSMGASPMR IIATVIIPEA LGPLVLGYTF LFIAIVDMSA MVGYIGGGGL  
GDFAIVGYR AFDNEVMYVA VLVIVIIVQA AQLLGNWLSK KIMRR

> RXA00416 (1-327, translated) 109 residues  
TSHYANPLGE FGNRNAFIED LAIRSWNELA DPQQFSDALN TSPWTIPEVF IFRGSIDDPD  
AGWKYDVAED LYPNNPNVRF RGVYFNPESE DQMWQTKQVG PFVVVTHNE

> RXA00418 (1-1065, translated) 355 residues  
LASYLSPTAL VVAVLAIPLS ATRLVLDGIS VDQGFRTQFL TRMADDIGLS DMNYIDMPFT  
YPAGWFWLGG RLANLLGLPG WEAQFPWAIV SMAVAASVLV PVWQRITGSL PVATGIALVT  
TCIILAMNSE EPYAAIVAMG IPAMLVLASR IAKGDKFALA GGIIYLGVSA TFYTLFTGAI  
ALSAVAVCIV VAAIVQRSIK PLLWLAVLGG GSIVIALISW GPYLLASING AERSGDSATH  
YLPLEGTQFP VPFLASSVVG LLCLVGLIYL VVRFHNNNEVR AMWVGIAVFI AWMGMSMAIT  
LLGNTLLGFR LDTVLVLIFA TAGVLGIADF RLASVYQLYP TQITERTATH LTNLI

> RXA00422 (1-423, translated) 141 residues  
MPTNYARDNV ISLASAREQR SGKPEPKPEL TLIVRATNVQ ADGEVHRQIG LNSAMSLDEL  
HNVLNIVFGV GGEQSPWRFE DQFHQPSAPD TNLGELLPEP GDFLFYFWGL WQFNLCQVEM

YPRDNGTPRA LCIGGSGGLG D

> RXA00423 (1-453, translated) 151 residues  
MTYPVLSVLD NSGDHNIWH VQTYPAALPT GAWIADEQQL TDLLKDTVVF LTPGSTAPEN  
APVATIEGVR VDVDKQVAEY NKHGIRLPSL GARTVEAQYR GEPEAEAAWR TAMELVEIAG  
GWLEIEAKRR ARKALAEAFG AEVQPLPLDT E

> RXA00424 (1-471, translated) 157 residues  
LQVAAGSALI GAGVAVNDYV QSPVRRRAISY GALALSGATV IAMGQDPTGE RSIIAKDSAT  
MVDQIRQEIG DLGVTPGPES DVDAITERGP LVTWLLLAUF VVAFFTLAYF SMRMDVAVMR  
RIAKFFEKRG ASRPFTCTGM VYAAFIYAIC ELEARTK

> RXA00425 (1-225, translated) 75 residues  
MFERFKKAKA PEVHIAAERT NLPLNDFMTR LFAQELPLLD STSRSEVYRL LREYDGPTIS  
SQEEIPAEIR ELMDL

> RXA00428 (1-633, translated) 211 residues  
MPGLVLSTNV AHQQDPGGD DRISGINKLP VATGIDVFIP GPNYGDGSGV VGDAIGDSLH  
HGGAHKAIYA YSREELDFFD PTYRNGYFGE NLTTSGIVLE DLLINQQVRI GTTLLEVSIP  
RRPCRTFAHW LDIKGWLKTF TQRLPGSYF RVIEEGHINP GDPIEVLQAP DHDITMSMAF  
RAKMGNKDLA RRVVAANCLP ARYHEELLKL I

> RXA00429 (1-402, translated) 134 residues  
MKTFNPTMIA GLIGVLYFVL LTLIFSIQDM ELAAEIAFGI VTIVGLIAVW DNFRDRNNST  
WKTWTGLVGG LLIAVPGICL LVGNLVLLAV DGNPSTMVNT LLSVAGIGAI FLLPIGIIMC  
LIAGFNRYA ALKV

> RXA00430 (1-411, translated) 137 residues  
MSLKTQAFRF ILTGGLSAIV DLGLLSLLQL VFGLPVPVAR TISFIAGTTT AYMINRRWTF  
QAESSTSRFL AVVALYGVTF LINIGLQTLG SALFENWGWN EAVAMVVAHV IAQGTNRNGH  
LHRPKNHHP SEVRYP

> RXA00433 (1-525, translated) 175 residues  
MDVLKIAIIA AAMIGVPVLV VFLIVFAVHK LAKEVPRSGR RPGIGLGLLL GFVAGLIVWF  
VWLSWGGYYE NEFGQMGGPY RPWQVVACGV TMVAVTVILG LWTRWTASGP FYSALGGASG  
FSFAWAMDAI PQDETGLSAF GLVMVIVGVG AGLNVVATLT SIGATIWNRR LPSNA

> RXA00447 (1-300, translated) 100 residues  
MLGSLWRFAV RTAAGAVALL VVIKLIDGIS LSFPTTPLYQ DGQHDNLLTF LAVAIIIVVL  
NATVKPVLKL LGLPLTIITL GLFSLVINAV IMLLAEYVSD

> RXA00451 (1-492, translated) 164 residues  
MNTEEDGLSF AVTATLVEGK WQVREFEDHF SKLST SINAV RSLRSEGP AF ALLCVDDEYF  
VMVRPTPSRV FLFLSDAPMA VDDDFAAAVM DELDADLPDI NPDDLDDIDP WPEGDFDILA  
DLGLSEEVLS VICDDMDLDP SEQLLRIAEE LGFDNDLARV VGFD

> RXA00455 (1-618, translated) 206 residues  
ILLALFVAVF LISNITATKG VEIGPLVTDG AFFLFPISYV LGDVLAECYF FKSTRRAILT  
GFGITMLAAL SFYISIWLP ASFWEGQEA EATLGLVPQI IVASLAGYIV GQLLNAKVLV  
AIKKRTGEKS LWARLIGSTV VGEFVDTLLE CAIAAPVIGI ATAPDFINYV VVGFEVWKTLL  
EVILMPITYA VIRWVKRREG YETFDA

> RXA00457 (1-1080, translated) 360 residues  
MTIALEHPVL HSTAIALPAR FQASYTTRLV AVGVDKRPSD FWLETAGTPQ AGDVVIARVT  
AINNHKRVT PESRKAILFE GVLVMLAYGH RYAADQFLAH VPEDLGPCHL VAAGGIAGTV  
TALHDRVDEP TEIEPLGLLT NARGTVNVRD FAAFDNPLKV EAPNKRAQVI AVLGTSMNSG  
KSTTLACLVN GLAAAGQKVA AGKITGTGAG NDRMIYHDAG AHSVIDFTDF GYPTTFKLN  
AEIRALSVNM INVADSGAD TVIVEIADGI YQGETSRLLR DQVFQEAVDH VVFSVADALG  
AKAGVQELQA AGLHVAAASG VMTASPLATA EAAAVLEVVP VPTFDLTNPE IVTAVLTDHA

> RXA00462 (1-1380, translated) 460 residues

MEAIAILFVI GAILVVAVIV LGIFFLTSRT WIKVAAADEA LIVSAKKKGE SQVIVHGKAV  
VMPITQTHQK ISLRSRQVNM QVTAQSDDNV TLNVEAVALV KIGSEAEFIR RAAQRFASSD  
KEIVRFTQDQ LEGVLRGVVA QQTVTSLMRE RKKFSEQIAE TVIPELEKQG LILDSFQIRG  
ITDDVGVIKS LGAPEIQAKK QAAEIAETEA ARAIAKSRIA NQEADLVEQT QLDANKAAAD  
AQVGEEARAQA MQAERLADEK ARLEVLRQQA ENKQIELEAE VNKVADAERY RRRQVEEADT  
FEQTRRAQAQ VEIAEAEATA AKVRAMAEAE AVRLKGQAEA DAIKAKAEAY RENQEALLAQ  
QAMEILPELM SNFASGYANI GSMTVLSSGE GSENSVGSRF AGEQALGLKS IIESVKQTTG  
IDLAEIIQGR AAGHAQGSQA GAAIAEALSR DETVEDRSEK

> RXA00463 (1-822, translated) 274 residues  
MQTTTGETSI SNETSFNASR ETSLTALGFL DYLDDEEQRAA LLGEGLDIST LTWANQVTAL  
RVLESLEFNEH AYELVSAVIQ HVAQEPGDNH HHFLKFSPEP STENSWELTL DGPTVGLKVT  
FDPDGGITFK DAHLGLSPAEE VVSVTEALDT SYSESQIKKA AEQLVGSINP TQQAALQGS  
LRGAQLTEEQ KTLFLKMTSN WIDLANGDSG SEQQEEIADT FSDTYIINE QKDGSAFFQM  
KGPELDIFS YK ESVPENAELS ARGVPNIQTS FQSP

> RXA00468 (1-819, translated) 273 residues  
VKVVDAAQVVM GPHTAMSGAA VGLAVAQILP AEWGGVTTAT EAFIYAGLAA GAALLPDLDS  
PQATVSRSGF PITQVISRFT ENICQTFVNV TRGRKDKHCN NGHRTLTHTV WSAAATGAGA  
TALIGAYGKP AVIGLLFFFL GLAIRGLMPE WSKNADWLLV TGASAALAVG VWNYPASSF  
GIVLGSAITV GSLTHLAGDM ATKAGIPAFV PVIPLKGRW WNLKLPKFLS IRANGPADKF  
LLFVFSVAVI IQIGLVSSGN MSTIMMNLPS PAL

> RXA00469 (1-1176, translated) 392 residues  
MSTFQEPHHN QGFIPFAQPG YEAPTPHAT GTFQQMWQTR PARIPAKQGG HAKVAGVCEG  
IGVRYQIDPV LIRLFFVVTG VFGAGVAAYL IAWLCMPRYS VVSPIEALW TPGHTKDRNH  
GWWLVIAFFM FSGVLSSGAG GISGPAAIT YLCLLAMWWA LHKKQPLPPR GLLTTEFTVS  
EDATMKNEEDL YPRPQPDLS ITPVEGYIAP FAQQTPEAPH WDPLAQNQYN TWDVQVPPQK  
PQKKRHVWPW IVGGVVGTV VMSALAGLFI SNIDPIYFED DPGIGDVNLI PTNDELLSSY  
TSGVGEMNLD FSNLTQLDQE QNVQITSGIG EVMVTLPPDV PVSLSCSAGV GTARCDVGD  
AAHNADLEGF MLNLVVNSGI GGVKVEFADQ ND

> RXA00472 (1-861, translated) 287 residues  
VSSVATKTTS TLPEMNSAVS ADGVTITIDS AFTTDSVEME SLDRPSGDIQ PEMSREDGIF  
VVVETTIKNE SGADMDITCA STGSTVYAEI STNQEAIVYQ IRDLFLIPGN PECNHNLSG  
FDAPMTWVFQ IPKDATAERF GFTHSELGDG KLTWIALNDL SNSEPATEST MRDEAAIDPS  
TPQQTVPVQET VISQNTIETP VAPAPAVPAY GASCPVSMLO QPSQAADGSA LVCIIYAGTPN  
PIWVYGPEPL GVGATATPGGA CEGYEAGGQD ASGNIMMCSG GQWVYGP

> RXA00473 (1-765, translated) 255 residues  
LWGDGTPVSL PDLGSLRAE RIDALRSRMS TMGAAPVKFE PSVEESAEQK QDSLAEKQDI  
VAVPSAFSDL FPGDGLPRRA VTQLVEQPLV VVDFLAHITA QGGHAAVIGW KDLAYAGVID  
SGGVCENIIA IPNPGTEPLN VAAVLCEGLD VVVYKGPEIS LSPTRARPLL GKLRQGTAA  
VMVGTKVSSP ALSVDAEITD YVGIGAGSGR IRGVEMQVRA VSKTHGVRSG KVLISRPQDA  
ALLEPEQPTT LRAVP

> RXA00474 (1-1578, translated) 526 residues  
MALWFPDWPV QAVHLDDEDAP AHNKPVAIAA HYRIQVCGVA ARKRGVRRGM KVRQAQAVCP  
ELEVVADAD RDARMEFEGIV ASLGEVASSV EVLRPGLVAV DAGAAARYYG SEDIAAQMLI  
DAALRQGIDV FAGVADEITT AVIAARANGG TVVKREASRS FLQQQPLGLV AEEEALGCEA  
EVVRALADLG MRTLGELAEI PVEAVATRFV NAGLRCHNIA RARHDRKVAP PITHADWEVS  
HVPEEPILRV DAASFVARNL ASRLHQLLSK GGVVCQLLKV TADFSTGDTV SRIWRTGEPL  
TEQATADRVR WQLDGWLTAR GVHSDDPNEH DGITALWLIP LECVPPDMAS GGLWDTGRSQ  
QHVARQVIER VQSSLGVDAV LQPVPAAGRG VEERIHVPY GEKRDARNP AGSWPGKIPG  
PLPARLGGGI NHPASQVTMI DTEGQRIYVT AEALLSSSPY ALSWGPARYL ITGWAGPWPV  
DDRWWKEKNGT KYARLQVVGR AVSEERQLNA WLLMWKDNKW RIEATY

> RXA00475 (1-660, translated) 220 residues  
VTQGYGVCMV VQPTSHSKHR ARLKTLAIVG ASALTLAGCG TSNSTTNDAS SVTQTMSATA  
DGAQLSNEAS TGPTALGEAD VAMKTLRPDA PAQLMVTDRV IGSHSGFDRV VFDLTGTGTP  
GWFIDYTSNP TQGGSGNTIN FTGDTALNVN IDGTVPYFDFL GLEDPEIGTV DGSGSIVTQV

VSAGTFEGRS QFVIGLNGKH RYSVTELQDP HRLVVDVLAQ

> RXA00476 (1-861, translated) 287 residues

MTLRCSDEVN EPLPGTAKTG SGFVLEHAG SWSRDVLDGG TFDPELTDQL KRHLKASGMG  
LQLIRKPGRE GRNVEKHNLV LVFAEASIE HLVVDAPADV LDLDLSGPGK NNAQRMDDPM  
LLICTHAKRD VCCAIKGRPL AAAVEPQFGP LHVWEASHTK GHRFAPSMLL MPWNYSYGLL  
DEAETVQLFQ GALDNKFLFP GNRGRGTLDA RGQVAEIAVA EAFGEAVAPA SLQVEFEDDS  
VLVTHPDGRT WVVELERIEV DGVVSSCGDQ PKTGKAWVAR QVTELG

> RXA00481 (1-585, translated) 195 residues

MLNMQEPDKI HPAEPTLRNI YDVKTSDPKS ELVDRSGMSE EDIAQIGRLM KSLASLRDVE  
RSIGEASARY MELSAPDMRA LHVLIVAGNA GEVVTGMLG AHLKLSPASV TKTLNRLEKG  
GHIVRNHPV DRRAFALMVT DATRGEAMRT LGKHQARRFD AAKRLTPQER EVVIRFLQDM  
AQELSLNNAP WLNTE

> RXA00485 (1-2043, translated) 681 residues

LPQGPGEIAV TTAPGAPEVG EHVSIRLSQN TEDTEVLVVG VVEPAAQETL GGAPFVVASP  
DALMEWNSSG VRGEFRVATS DPASLEAASF SDATVVVASA EGHVDKLADS YLGQRDRYFL  
LLAAFAVAVAA AVAFLVVFSA YSVLTGERVR EFGLIRSVGA STPQILGSI FEAGILGVVA  
AGFGAPAGLM AARLLADNAA RFGIRVPIDV IDLPSSTMWL IAGVGVVMSV IAALPAVFSV  
CRKSAVESLS TPAISRTSPW FGALWLLLAG IVGAGGMWAY EATSDYRGMR SVALSIAGSG  
ALVCALLIAT AVLVPWLLHV FSRIVGGTVP TLQLGLAFAA KQKRSRAALI AVILAGSALS  
SAVLHGQAHG GTHLVAVAKG MGGTDMMVTA LDGEIPAGML EEISSIDGVK TAIAPATTAV  
ELEDGSGNFSV LMLAEDDGAS VMRAGDTGAP AGGLVLGRNS PDQDAYPAGQ AANIIVADTP  
TQAEIFHSDN YFSMIDPALA TGPSTTRNVL ILLDGDNSQA PDNATAQAVR KTISLFDGRY  
SITEGFSARQ NTFELVSRIT TMSTLLAIVA LAIAAVGLIN TVALTISERA RDRYLLRTIG  
LTSTGQILVM AIEMIALSLP AAIVGAVSGG FLGRFVASSA TNTAATAPLQ VDILGGTVLA  
MVAGSVLCAI IVLANKRRRV V

> RXA00486 (1-702, translated) 234 residues

HAIMAAVDHA RAAVLDSLSE VSGTLKVTSE QSLFTLAPK AIARLTKYK HLQVEISQLE  
VTAALAEELR RRVDVALGEE YPVEVPLVEA SIHREVLFE PMLLVTPASG PYSGLTLPFL  
RDIPIAIDPP DLPAGEWVHR LCRRAGFEPR VTFETSDPML QAHLVRSGLA VTFSTLLTP  
MLESVHIQPL PGNPTRTLYT AVREGRQGH AIKAFRRALA HVAKESYLEA RLVE

> RXA00490 (1-903, translated) 301 residues

MNKQSAAVLM VMGSALSQF GAAIGTQLFP LNPWAVTSL RLFIAGLIMC LVIRPRLRSW  
TKKQWIAVLL LGLSLGGMNS LFYASIELIP LGTAVTIEFL GPLIFSAVLA RTLKNGLCVA  
LAFLGMALLG IDSLSGETLD PLGVIFAABA GIFWVCYILA SKKIGQLIPG TSGLAVALII  
GAVAVFPLGA THMGPIFQTP TLLILALGTA LLGLSIPYSL ELSALRRLPA PIFSILLSLE  
PAFAAAVGWI LLDQTPTALK WAAIILVIAA SIGVTWEPKK MLVDAPLHSA CNAKRRRVHTP  
S

> RXA00491 (1-420, translated) 140 residues

VYVVLATSAN RVEDVNFDM MPRDPFADDP NDPASFITDD DPYDHPEPLS EEERIHVSQD  
LRLVMEFKKV LGPRGIEGVF FMCEDCEEH YYDWDIMAAN MRATLAGELS PVHEPSAQPN  
IDAYVPWDYC IGYLDGLEAK

> RXA00493 (1-324, translated) 108 residues

FEGDQKVGVR ALATALGKPA YWIASNAGLD GSVVVARTAA LPNGEGFNAA TLEYGNLIND  
GVIDPVKVTH SAVVNATSA RMVLTTEASV VEKPAEEAAD AHAGHHH

> RXA00496 (1-402, translated) 134 residues

MTRRLHGGEQ DGQEHVKGQL KQLFDDDAFL TDLRSGVDPS EGDDALAGLL LDLTKEAQEP  
PATMPDWSTL LPGILDQDQD LPVESTSDTT VMQASNPATQ EFAPVSISDT PNTATNSADA  
DESATVVPLA ARRE

> RXA00504 (1-246, translated) 82 residues

MTYGFLVNTD LTHRAIDFDL ENAAKFLGGA DDGRVAVAFQ EDGTLYAALY SASAKDEGAA  
ANPVASLGRN AAATGDGSFF SD

> RXA00505 (1-252, translated) 84 residues  
DLIHMDAYRL LGEDSEDADP IGALDSLDD TDLDLAVVVA EWGGGLVEQI ADSYLLITID  
RETAVQEDPE SEARIFHWEW REGR

> RXA00506 (1-1341, translated) 447 residues  
VLDFLANPL IALVVILAVG LAIGQIRVFG LSLGAAVLF VALVVSTANT DIVIPMIVYQ  
LGLAMFVYVI GLSAGPAFFS EFAKKGWKLT IFMLLLLATL IGLAWVLIKS LGLDAAIGTG  
MFTGALTSTP GMAAVVELIE GIDPSLASEP VIGYSLAYPG AVLGSIVVAA VGAKLLKVNH  
REDARKEGMI TAPLVWKGVO LKPGITGRVG DLPRLAGEST IATRIVDDPH THRLADPDLP  
ITEGMELLIN GTEEAVDRAI KALGEERETK IEDTELIYTR LTVSSPEVAG RTVAELDTVA  
HGFMIARIRQ GDSEVVPKPD TVINYSRIR VVVAPGRVAE VRRFLGDSEK SLADVNLLPL  
AIGLSLGLLL GAIPILPGG TTMSLGFGGG PIIAGLILGA LKHTGPLTWQ MPFHANRTIS  
TLGLALFLAG VGTSAGAGFR AALTDS

> RXA00507 (1-855, translated) 285 residues  
VAENLNKHLKLS KLSKRGPHRV LVGDMNYAGI PGKIYTPAEG DGIPGVAFGH DWMKSIKYYH  
QTLRHLSWG IAVAAPDTEN GFMPDHKGFA SDLESSIQIL GGVKLGSGNV TVNPACLGTV  
GHGMGAGAAV LSAANRDLVR AVGAIYPAKT SPSAIDAAFA VKAPGLVIGS SSLGLFESGE  
PAKLAANWAG DVCYRESEK NQQGFSEDTM FKLIVAGIGSP QTGAQETVRG LLTGFLHLQ  
AGEKKYKAFS EPDAEAKKV SYFGQELQEH AFPKDTSPFA FLNEK

> RXA00509 (1-177, translated) 59 residues  
LVDVELSAAL LDPPELPELA VLELEPPEEA AAEVAPPDE PPEAALHNGF GSVSQTCTFP

> RXA00510 (1-531, translated) 177 residues  
VEKPVEKTPE KPVEKPVEKQ ECEEKPD PDP EXMQXXEPVE CEPTPKPETE PEPKXDTTHAX  
XPGTPTPIPX ARXLRIXXXX XQGXGTDSX XXXXXESEEC APELNDVPEE SDLIGQLIK  
AIGIGIVVVG VGLLVNFLEQ CVPVIEEVPV PEPEPIPEPA PQPEPTSVKP PESELDK

> RXA00515 (1-480, translated) 160 residues  
IESYIAQDDN APTAAELQVR LDAIESGEG L AMLLPDDPTL ADPNAEESFK TEYTYDEAKD  
IISGFSSDPA SDVLSQLQA ATTGTRTAEI RAEVFADRTD DYNESQTALK EDFQNCIDAI  
DDARPIPLQY ILIGGAIALA VIVLGIRAWT NSRKQSKHSQ

> RXA00519 (1-513, translated) 171 residues  
MAGGGLFETG AGGSAPKHVQ QVQENHLRW DSLGEFLALA ESFRHELNNN GNTKAGVLAD  
ALDKATEKLL NEEKSPSRKV GEIDNRGS HF WLTKFWADEL AAQTEDADLA ATFAPVAEAL  
NTGAADIDAA LLAVQGGATD LGGYSPNEE KLTNIMRPVA QFNEIVDALK K

> RXA00520 (1-198, translated) 66 residues  
MRFSRVLPAL LITTAVSIPT ASAATLTGDT DKELCIASNT DDSAVVTFWN SIEDSVREQR  
LDELDA

> RXA00527 (1-1764, translated) 588 residues  
VIATSDVREI SSEGIVARVS VNGNIEAART TTIYTSLTVP VANLPVAVGD RVAADQVLAE  
LDASALQRQL DETDANNARA AMANRNSIAQ SQQAYEQSRE LLD SGLSPEI NSARSSLRAS  
SQAYQDAIRS FEAKQRDVG GLDSTMVAQS DALKAAREQA DAAEIERLRA DFGLLNDRS  
NLNDVIGLLD ERESLASAES ELAQARAAGD LEAVAAAEAK VAGLEQSIAS KTSTWPSQDQ  
TYLQSYTALE EAERRVASTT EALEIAERIY IDSLGKVDSE LAAQRAVAE AHSAQQDAAL  
GLETAQLSTQ HQLEAQSSAI DAALGLASVD NEAATRSTSQ LRMDINNTTV RSPYSGIVSS  
VQAAQGPAA GALLSVADDS ELKITANVKE AEISNVTIGS RVTFTTPSTG TKEFAGRVSK  
VSPIAAAASA PATGEGAAAG ATTTNTDVTF PIEISVTGDR EGLNLGGSAR VRIVHEIAPH  
VLTVPLEAVY KNDDGKDAVL IISDDNKVEE VEVKTAESDD FDIASGAGI SEDARVLTQP  
GNYRGLIGET VKLHADTVEQ AAPFSPAAP FDPAPAVSA KQTVGQVI

> RXA00528 (1-1089, translated) 363 residues  
MSTSTIRVAI AGVNCATSL IQGVEYYRNA DPSETVPGLM HVKFGDYHVG DIFVAAFDV  
DAEKVIGIDLA DATEASQNT IKIADVPTG INVLRGPTLD GLGDHYRATI DESTAEPVDV  
VQALIDAKAD VLVSYLPVGS EEADKFYAQA AIDAGCAFN ALPVFIASDP EWAKKFTDAG  
IPIVGDDIKS QIGATITHRV LARLFEERG RVDRTMQLNV GGNMDFKNML DRNRLESKKV  
SKTQAVTSNI PDGPLSGKVE DRNVHIGPSD HVQWLDDRKW AYVRLEGTAFF GGVPLNLEYK



LEVWDSPN SA GIIIDAVRAA KIALDRGIGG PIMPASSYLM KSPPEQLPDD VACERLEAFI  
IEA

> RXA00529 (1-543, translated) 181 residues

MKWKWIAPIL PVLALAGCGN YVNVESQGKS GISHDEDGNI SVHMYICGDN AVDELILSGG  
FYDGGPGTNN PALGMLKTSN PESGYVVVNI ADPAPWEVVE PINLPTEQ GK YIIANPRLVD  
KGWPIPFKE KYMPSVSTSV GMLEGIDPGL VMRD MYTEST HVFGTAEDFV EAGQQWCEDY  
F

> RXA00530 (1-1281, translated) 427 residues

MSIGFDRDLY IKMQSQHINE RREQIGGKLY LEMGGKLFDD MHASRVLPGF TPDNKIAMLT  
ELKDELEILV AINAKDLERK KTRADLDISY EEDVLRLIDV FRELGF LAEH VVLTQLEDDN  
YQALAFKQRL ERLGLKVAVH RVIPGYPTDA RRIVSEEGFG INEYVETTRN LVVVVTAPGPG  
SGKLATCLSQ IYGDHQRGIK SGYAKFETFP IWNLPLEHPV NLAYEAATAD LDDINIIDPF  
HLAAYDTKAT SYNRDVEVFP LLKTMLEMLS GSSPYKSPTD MGVNMVGS AI IDAACQEAA  
RQEIVRRYFK ALVDERREEQ DDTISARIAI VMSKAGCTVE DRRVVARALD VEESTGAPGC  
AIELNDGRLV TGKTSELLGC SAAMVLNALK ELAGIDRSVD LLSPESIEPI QSLKTQHLGS  
RNPSPAH

> RXA00535 (1-717, translated) 239 residues

MWWAGMSTAM LAYFLQTVAL GFGTLLVVQP VLVLSLMFTL PLSARFNGYR LRRTEIFWAT  
LLTVAVGIMI VLGRPLPGNP HPPLDRWIPV LLVGVA VMGG MWLLAEYVLK KDKALILGLV  
TGALFGYVAV MSKAAVDLFV HQGITGLILN WEGYGLILTA LLGTIVQQYS FNAGELQKSL  
PAMTIAEPIV AFSGLYLVLG EKQVVDWEW IAMGIALLMV IVSTIALSRT STMPAGSKR

> RXA00540 (1-243, translated) 81 residues

VARVVNVMP KAEILDPQGQ AVHRALGRIG VSGVSDVRQG KRFELEVDDS VTEADLKKIA  
ETLLANTVIE DFDVVGVEVA K

> RXA00546 (1-690, translated) 230 residues

PVLGGIFQWI CGIITRFLYP VVDVIPFHTL PESGLYFI VT ALALAFFWVL VIRMMVELTG  
NRVWDTVLVA ASPLVAVHAF TNWDTPAIAA VIGAMLAVKR GNPLVAGVLI GAGTAFKLWP  
LYLLGAYLVL AVKNKNL KPF ITMAAAAVT WLNVNVPVMI AYPKAWNEFL RLNRERGAEW  
TTIYQVIDRN LPINLNDPVL LNVLSFGLFG ASVCGHFD PW AQGAHSPSR

> RXA00547 (1-414, translated) 138 residues

VAILILGLKV QRTPRVAELA FLIVAAFLLF NKVWSPQYSL WLVP LAVLAF PQWKVLF PWM  
VTDAMVWPIL MWHMLGTDNK GLPHEMLDLI VISRDAFIVV MISRCNPADA RTTCKSGDGC  
ARRARIVGRA LRRKRSVE

> RXA00549 (1-396, translated) 132 residues

LTENGETPYE GIILGQYESR PLDMASAMAT IANEGVWHRP HFVSKVETVS GEVLYEFEDG  
DGERRVSEKV ALNLLKAMGP IAAYSNGNAL ADGQVSASKT GTTQLGDTGA NKDAWMLGAA  
PQLATAVWVG TA

> RXA00550 (1-321, translated) 107 residues

MYGSNSPATI WKQTM DNALE NSPLETWDIA PALGYGNPPV PEYVWTPSPN IATNDPEGAT  
EEAPVEDPNA VIDTPAVDPT APAEETGNGQ VEILPGLTIP GDLLGIG

> RXA00552 (1-717, translated) 239 residues

FKWSEGG AED FPKLSVKVRD EIVAFGAPDE LKVDENG VVG GGVHLKPQQV NELVEARGDE  
VVF FDGRNAM EAQIGKFKDA VVPDVETTHD FIAEIESGKY DDLKDKPVVT YCTGGIRCEI  
LSSLMINRGF KEVYQIDGGI VRYGEQFGNK GLWEGSLYVF DKRMHMEFGE DYKEVGHCIH  
CDTPTNKFEH CLNEDDCREL VLMCPDCFAN VETRHC KRE R CAAIAADFAE QGIDPLVTS

> RXA00553 (1-321, translated) 107 residues

MSIVKINAIS VPEGAGEELE KRFAARQNAV DSAPGFEGFQ LLRPVSGEDR YFVVVTQWADE  
DSYNAWRDAE KAKGGHGQGA HGSDKKPVAS GASLLEFEV LGSTGAK

> RXA00554 (1-471, translated) 157 residues

MNTQPEHPEN DLVDEADFSN RPRIYSDDPD SLADAPDPAL EHEKNKKSSR QALIYLLQVP

LVTFSVAYVL AWVSRLQGGP ICDAGEAVWI CSRAAELWWP ITTSVIAFGG MLGSAWILYD  
KYRNYLRWRP WMGVLWILIP FSMLWGTSVL TLSILGH

> RXA00555 (1-891, translated) 297 residues  
SGGKRSEQND AVFEFAAWLA RTSINVRGI TTFIRPWPSS SISKLGKGYH KWKYNLDSYY  
RSRTIKGLKE AGVEKSQWDD DVSFVVDGPS ESTLLTHAAE EFEADLILLG SDATAPKGRF  
LASSTADALL HSSPVPLGLV PRGVKLSKKG VTRVNYAFTN ESDDFEQGLR SSAELATNWN  
VPLRILAFSP TGITSAPTSR SLDISTELSS EWRELTLAML DRARDGVLT DHPNLSVSSET  
GSGWGWGSAI DALRWKKGDL LCMGSHRTDT LSRVFEVGSET MEIIRNSPVP TIIYPGL

> RXA00560 (1-237, translated) 79 residues  
MRIDPLETRQ AVLAVKDWIE GEGDVKKPGR AALAAATRLS VRLLAQHAPG NSVEVRVPPF  
VAVQCIEGPK HTRGTPPNV

> RXA00563 (1-2739, translated) 913 residues  
FYKDLYARSA RGTAALWIVA ANLSSYSID AIINWVGSEQ TTTVNGASKL VKPALVPTLL  
FPFAAPRVSG SMADAGPQAE SQMRLLLSV ERLIAGLAPL GSSINVGHLR HVVIPGSPNR  
GRFGGDGAYG ESKAALDAVV TRWNAEQAAW GAHTSLVHAH IGWVRGTGLM GGNDPLVKAA  
EEAGVETYST QEIAEKLLSQ ATSTVREQAA SAPITVDFTG GLGESDLNLA EMARAEAAKA  
ANAPVVEAPR TVAALPTPYR PVVQTPDFA GQVTQNLDEM VVIVGAGELG PLGSARTFED  
AELNGSLSAA GVIELAWTMG LIHWDEDPKP GWYDDSDDAV AEEDIFDRYH DEVMARVGV  
KYNDMPYGM IDNFAPELTT VYLDQDLTFN VGSREEALTY VDSEPELTFA SFDEAAAGEWK  
VTRKAGSAIR VPRRMAMTRF VGGQVPKDFD PAVWGIPADM VDNLDTVALW NIVCTVDAFL  
SAGFTPAELL ASVHPARVSS TQGTGMGME SLRGIYVDRI LAEPRANDVL QEALPNVVAA  
HVMQSYVGGY GQMIHPVAAC ATAASVEEA LDKIRIGKSD FVVAGGFDAL SVEGITGFGD  
MAATADSAEM EGKGIEHRFF SRANDRRRG FIESEGGTV LLARGSLAAD LGLPVLGVIG  
FAESFADGAH TSIPAPGLGA LGAARDGVES RLAVALRSVG VSADEISIIS KHDSTNAND  
PNESDLHERI ASAIGRADGN PMYVISQKSL TGHAKGGAAA FQMIGLTQVL RSGLVPANRA  
LDCVDPVLSK HSHLVWLRKP LDLRAKAPKA GLVTSLGFGH VSALVAIVHP DAFYEAVRVA  
RGAEAADVWR ASAIAREEAG LRTIVAGMHG GVLYERPVER NLGVHGDAAK EVEAAVLLDS  
RARLVDGVL AEG

> RXA00564 (1-405, translated) 135 residues  
MKYNVDVSRE SEDWLATVTN LEGVSTWATT FANLDRNGRE AIALAEDLPE GAESSLTISW  
SVPTDSHPDL DTAIQIAQQR RYLVAQQAQDL EPKVRSAISA LTQAALLGMT AGRVSPHNP  
GSRAISLDQV SGVLN

> RXA00573 (1-651, translated) 217 residues  
MLVRPCGEQA VIIDLLAEDA EAVQGSILDA VLALNRSLVG MQVPGIIDTI PAAQTLLVTF  
DTKQITPNRF AEIVDSIALT PAAKGAAELT DTIEIPVVDY GPDLETVAQH TGLSVEEVIA  
THSGTVWTA FGGFAPGFY LIPQTPWDI PRLESPRTKI PAGSVAVAGE FSAVYPQQSP  
GGWQLLGTT IPMWDVDRWQ PSLLKPGDSV RFVQVKK

> RXA00574 (1-879, translated) 293 residues  
MSFKVISTGP QAIFQDRGRF GFASAGVGTS GSFDRLSAAR ANHALGNPN ATVVEILLGG  
FEVEALHTTS IVFTGTAEV MVRTAGGQSK NATNTIIVD AAGERIRVEP ATYGMRAYFA  
ARGGFAVKK LGSASTDLIS HMGPCPIEPG DVIDVATDIA DSQWWPKLRQ LPTLWKRMPT  
ETLTVIRGPR DKWFTQESLN NFFTQVFTVS NDSNRIGLRM HSSEPIQHRV EGELKSEGMV  
RGSIQIPPG NPVVFPGDHP VTGGYPVIAV LTRSRSRDSA QLLPGDKVRF KLL

> RXA00576 (1-672, translated) 224 residues  
MLTSLFITGT EPGKWFTRFR DRTHHGGLET LDSDDALGLM LAGQAQLALT RLPDARIDAS  
LHVVTLYQEQ PGVAFPKDFF LSAEEGAVDL ADLGEIINW SMPDSGEVDA AAVRDALQIV  
AANVGVIAP RPLLVLSKK LVEHRDIKGG TETSIALVWK KDEDSEEIQD FVGIARGRTR  
NSSRQQTIVKL SAREKTLAKQ ARRQGEKPKT PKRPQARKRP GKRR

> RXA00577 (1-348, translated) 116 residues  
MKPQTAACKL GLFLPATPEE FQTGALTHQE FKNLQENPPE WLQTLRREGP HPRPVVAQKL  
GITIAALKKN DMDKPLTTAE IKALLENQPE WLRTARTQLA EGRETAKKET EETTED

> RXA00578 (1-723, translated) 241 residues

MTYLVDGAT LVEGALESTP TVVDSYLAKD HRVVRWDLHE QRFATSVDVD PWDFLHAVRE  
AIPRQGSWFP KVEWHGDDLF AVNIRPAPTL RKATSLWLSE DDPRTQPTI KGPDLVLAH  
LRSRANDNGC DDALLISADG FILEAANATV VFWADPQTVI VPRGDVLPVS TLAATIPLWE  
KAGITLRYQN IRHIGFPWC GSSLHGWPV VSWGRGLGKI AAKAPSVKP WNEKLRTIF  
L

> RXA00582 (1-519, translated) 173 residues  
MSDYIVAFES AYGSTKQYAE SLAQRLGVDA LNFEQACAEL AANPTAAIVV LSFVHGSPSH  
GAKFITDTDL SGHRVALCTV GMTLDDVVQK KDGAARSLGN KADDVTRFYL PGRLNYSLS  
TAHRTTMWTI VNMLKAKPLK NDNDKMMINT FDTDVDVDE SRLDAVEEWA RGL

> RXA00585 (1-318, translated) 106 residues  
VIDLSPVFNT AAGVYNDTNA IILAQQQGG PLGPEFGKAS PVGLLLIVAM LVAILVLGWA  
FHRRWSRMNR RRIFAERNGL DPFIDIEGVRK AMAEAGLNEK SKKGFL

> RXA00586 (1-882, translated) 294 residues  
MKHVSGLRLM AIHAHPDDES SKGAATMARY AAEGNQVMV TCTGGERGDI LNPAMDKPGI  
LDNIFAVRQE EMAKAMEILG TEHRWLGYED SGLPQGDPLP PLPEGCFAL DSDKVTQDLV  
KILREFRPHV IITYDENGGY PHPDHLKVHE VSMLAWEKSG DAAYAPELGA PWEPLKLYYT  
HGFIRQRMEM FHDLLIEQK POPYTPMLER WKANEADVMA RVTTQVPCER FFDQRDDALR  
AHATQIDPAG AFFGTPVEVQ RRLWPTEEFE LAKTRVKTSI PEDDLFAGIT PDAE

> RXA00587 (1-483, translated) 161 residues  
MSTNSNSPSN ASGASNIPNT QRPASRYNSP RPEAAAGRN SGKIIAVIGV LLVIAIVIG  
ANFLKNRDAQ TVSGQMGSE RIDDDTFRFE VDVTRDDPSQ VAYCIVTAKD YSHAEVGRRE  
VLVEPSDHST VRISTLIPTR EPAVSGGVYQ CSTVIPSHMN L

> RXA00589 (1-363, translated) 121 residues  
MTTLRKFV SATTALAAVA LVACSPNEID SELKVPTATG VSLPSKNVSA TSTATDDEDA  
PGYIDCVAAP TQPAEISLN CAMDIDRLTD ISWSEWDTDS ATGTGTRIVT AANGQETETE  
D

> RXA00595 (1-330, translated) 110 residues  
RNIAAWIAIA AIIIASLGAL LSMIRVWREV FWGGAMHQRG VSPQLRISPA KIAPALSLII  
LSVGMFIFAG PLIDATLTAT DGLLNTDAYQ QAVLGENAIG VPSPSYQGN

> RXA00597 (1-270, translated) 90 residues  
MTAFGIVTV GICMFAFSL SALVLILRTK DFLTRVVLSD MVFYSMIAIY LIWVLNNPTS  
IAFEIALLA VLGGVLPTLS MARIISKGR

> RXA00598 (1-318, translated) 106 residues  
MTIPEIIVSI LVILAGLFSL GTAILWRAP DPLTRANLLG TTVGVSIPLL IIALLIHTWS  
VDGFNPNNFI RAIIAIGVW VIGSVGSYIM GRAIYGTVV DNRRSK

> RXA00601 (1-291, translated) 97 residues  
MRFKSVAAIA LSTAMIRGGT ASVANAQQVS PSSTIEIPQE FVHTVQNFVP GMTYGDAGSA  
IQSTAGSVAL NSTAGIILPI VLPFLGLGAV GSAALSA

> RXA00602 (1-753, translated) 251 residues  
VQKTQEIHSS LEVSPSKAAL EPDDKGYRRY EIAQGLKTSI AAGLGMYPG IAFGLLVIQY  
GYEWAAPLF SGLIFAGSTE MLVIALVGA APLGAIALTT LLVNFRHVFY AFSFPLHVVK  
NPIARFYSVF ALIDEAYAVT AARPAGWSAW RLISMQIAFH SYWVFGGLTG VAIAELIPFE  
IKGLEFALCS LFVTLTLDSC RTKKQIPSL LAGLSFTIAL VVIPGQALFA ALLIFLGLLT  
IRYFFLGKAA K

> RXA00604 (1-291, translated) 97 residues  
MRMKSIAAIA IATAALAGGT GVASAQEAGS TAGSSNLSSG IQLPQEATDL LSFLPAAQAA  
QVEGAIQSTA GFFAVGLGST AIGSTAVTLG IADLLSS

> RXA00610 (1-864, translated) 288 residues  
MEPKKPVTYK ELAHEYSRRT FNKLFTKITG FVYLKNDLIN DPNLVTQALL KRCPEGVLRG

YAALKQRGYQ LLDDQWMPPI SVSGDLNRRD CSERGEILRRI EPENTLLSGN IRFVNDVQAI  
QDVFDLHSLN DFEDQVALID HLRQRPELF QELIQEPKPK KHTQYANPFA ESPQESRLRV  
RLHSLGYHGF IPQIHVEYDG QSYFLDLADP LWQVALEYNG GWHYTSEQRE KDSHRKNALK  
SAGWDVLEVT SKTLQNPNSW NNLIQQINSS LRRKQAQRRR RLPMQTVG

> RXA00611 (1-1476, translated) 492 residues

MSAAASRSRN ILTALLLVLP LIAGTIYASA MGLDVSRWS SADEVGTGAPA ASVATNNQEL  
IEARRAAGEA GAQAGFLTSG TEELTSGTQE LIDGAAPLEE GVSAAADGAA QLHDGLIQLQ  
AGTGQMGTTGA TEIADGVQNA-VEQLGGLVVV QQQLLGALNE-ADKQLASSKI PEAEDLRKQI  
TEVRGHLENF GISVEMTDQL DQLRSGTRDL ANQLAVPGYG FHDGIYSATN GAAELSAGLQ  
ELEAGVGTA VEGFTALDEGA NRLDSEMATLN EEKTSAVQRA LPVPQVPAGT IEGTAEERT  
SALAPMYAFL ISALVMLAGA ALGWATLKNK WLMAFAVIGV TAIGGIILFT VALGISIGAL  
FGALGILLLA TVVAGILSRI LLDVLGTTGA IVVSVLGWVA QAAVIGHVWS VTAVSDIALV  
WRVVAGMMPL HYPTFAVTSI GNGGSAAIW MSVAVLLAMG AIGAVLRKP KAVAVEVEEA  
VDADADQAAS ES

> RXA00613 (1-453, translated) 151 residues

MSELKDKIRA DLTTAMKARD KDTTGTLMRL LSALTQEETS GTKHELNDEE VLKVIAREIK  
KRRESAEVYT ENGRQELADV ELKEAAILEG YQPEQLDDQ LNALIDEAIA EVGGEADMKK  
MGQIMKAATA KAAGRADGKR LSTAVKSRLS N

> RXA00614 (1-915, translated) 305 residues

VNKVSTIAKT LTFSSAALLG AGIATAAWGY SELKKFELKT VELPILKPGT LRGKKEFRLL  
HISDLHMIPG QETKKAWVSA LDSLSPDLVI NTGDNLSDEK AVPDVLRALG PLMNRPGAFV  
FGTNDYWAPR PVNPFYGLFG KKREVSHIDL PWRAMRAAFI EHGWDQANQK RLEFQVGSVR  
LAISGVDDPH HDLDDYTEIA GAPNVADLS IALLHAPEPR VLAQFEADGY QLSLSGHTHG  
GQLCLPGSKP IVTNCGIDRK RATGLNKFGD MWMHVSNGLG TSKFVPPRIF CRPSATLIKI  
TEQAL

> RXA00616 (1-345, translated) 115 residues

MKSLPRFAPL ITILALLVLV AIGGSALANN RATPNVESEP ATVNQRSTPT TSAYEPPATE  
SPEEPTTQIQ ESPVQPPVPA PAQIPQAPQV PLNYQYYDDD WDDDDDDFDD DWDD

> RXA00617 (1-1083, translated) 361 residues

MTAVVFLTLA SVVIITRSVL LSEVTNTANS AVEQEIEEFR RFAAEGIDPT TAQPFESGHR  
LMEVYLSRQI PDENEIVGI FPGELIQVDY SQLSGAHPLP LEHSDPLISE IRQTTLNSGV  
FSDLERGTH WGKVNFTAS GEADGEFVVA FFADNLKDQV NGQIQILILI GTGGLIASIL  
IAWLIAGQII APIRKLSVS AKISNSDLTW RVPVEGRDEI AQLARTFNAM LDRIEIAVND  
QRQFVDDAGH ELRTPITVVR GQLELLATTP PEEQARSIEL ATTELD RMSR MVNDLLTLAV  
ADSGTFIAH PTDVTDLTID IEDKARTISD RILLVDAAEG LVSLDEQRTV EAVLELFGNA  
L

> RXA00628 (1-408, translated) 136 residues

MASVFTKIIN GELPGRFVYR SENVVAFLSI EPLTYGHTLV VPVAEVDRT DLPQNIWSEV  
NEASQLIGNA IRTAFDAPRC GYIIAGFDVP HTHIHLFPTD KMADYDFRNA MAADATDPAK  
MDEAAEKIRE ALDGLV

> RXA00631 (1-1455, translated) 485 residues

MENPYVAALD DENQEVGVKK EAEKEPEIGP IRAAGRAIPL RTRIILIVVG IAGLGLLVNA  
IAVSSLMREV SYTRMDQELE TSMGTWANH ELFNFDGVRQ GPPSDYYVAK VFPDGSSIIIF  
NDAQSAPDLA ETTIGTGPHT VDAASGSASN TPWRVMAEKN GDIITVVGKS MGRETNLLYR  
LVMVQMIIGA LILVAILITS LFLVRRSLRP LREVEETATR IAGGDLDRRV PQWPMTEVG  
QLSNALNIML EQLQASILTA QQKEAQMRFF VGDASHELRT PLTSVKGFTE LYSSGATDDA  
NWVMSKIGGE AQRMVSVLED LLSLTRAEGQ QMEKHRVDVL ELALAVRGSM RAAWPDRTVN  
VSNKAESIPV VKGDPTRLHQ VLTNLVANG NHGGPDAEVS IEINTDGQNV RILVADNGVG  
MSEEDAQHIF ERFYRADSSR SRASGSGSLG LAITKSLVEG HGGTVTVDSV QGEGTVFTIT  
LPAVS

> RXA00637 (1-753, translated) 251 residues

MTDRTIGEAA ELLGVTTRTL RHWDSIGLLQ PSWRTTDDYR LYTEDDVERA LQILYRAAG  
IGLKDIAEVL DQPD SANQHL RRQRELLVEQ IGQLHRMVRA VDEILGKDAI SVKEKIEIFG

EDLPKYQEEA FQRWGDTPPEW KESQKIQEKM TKEDFQRAKD EHEGFVEKLI DASLRGIAPG  
SAEGNELALA HRASIGQWYT VSANKQVILA RMYVEDERFN ETYKGHASYL LTLIEALAQV  
EGVDLENVEW E

> RXA00646 (1-441, translated) 147 residues  
MQRRARREVG LTEVLDRLEP QPKKRGRIPF TRADLDNDAE LAEFETLEAI AAGDTLITGA  
VFTGTLEGVA WEVQVDVLVR NPDGSYMPVM VSNHRVARPD PHKTMQGIIV TRLGLGQPLE  
LKATLRHHTI DGYRLTLALM GLEEAGA

> RXA00647 (1-633, translated) 211 residues  
MGIFEAIRAA RAKTKAEIKA AEAQVKTEAK NKAKLDLKR KLLVQQEKNL LKVEEKGLKK  
RNKHELKMAK NILEQKRQGR LNKDKVKRWA GTARVLTPLL LPPIYRLSTE ARDQVVKGRA  
RRAGVTAEQL SQFAGHAAAL KARIQGVRET AKNSSLPAGE VRDVEERLNE LEAAANNSEF  
MSPQQRNRAH QSISRDLNQV SDQIQDRLLD K

> RXA00649 (1-456, translated) 152 residues  
MSTDPIAALE YESTIFARHR NQYTGQAGTN AGVLDSSGYN LLTLLQLRGP STIGELSAIT  
GLDASTLNQ TKALLTKGFV ERIPDPDGGI ARKFHPTDLG NELLNEERTS SQEKYAEELS  
DWPEEDLRTE VKLLEKLNKA VETRVGKHWP RP

> RXA00652 (1-549, translated) 183 residues  
MRRTLPTILA ASIMLTACTP AEPEATPETT TEAAPEVITD GLPIDAMPAV ERTAQACPY  
LGTDWVADTN GQRTVGYGTD ERFSTPSCVF YSYPEEPQLT VIVRDMATTD DAIIVVDWAA  
PIDSTPAEE PAGWSGGRRG GNDTSGALYA VQNGPTAVIV FTNQDQSLKA QLIAEEVIQ  
LGL

> RXA00653 (1-765, translated) 255 residues  
VSVSQVVEI LLTVGILALL FAYYEAYWTN VESGKLQESA GQKLDEDWNE ARVNPRQKLT  
PELGEAFARM YVPAFGSDFN FAVIEGTDEE DLLAGPGRYV DSQMPGEAGN FAVAGHRVKG  
GAPFNDLGNL EVCDIVVET YNSWDVYRVM PMSTNGADRA AEAADCFNEN QVSRMAEGDY  
VNVSGRSITT PDRIDATYPT PGVFDTAVRE GSEALLTLTT CHPQFSNAER MIVHAMLVEE  
IDKSSGERPA ALEEN

> RXA00654 (1-1266, translated) 422 residues  
VLDILIYPVS GVMKLWHLLE HNVAGLDDSL AFFFSLFGLV ITIRAIAPF TWQMYKSGRT  
AAHIRPHRAA LREEYKGYD EASIRELQKR QNDLNKEYGI NPLAGCVPL IQIPIVLGLY  
WALLRMARPE GGLENPVFQS IGFLTPEEVE SFLAGRVSNV PLPAYVSMPT EQLKYLSTTQ  
AEVLSFVLPL FITAAILTAI NMAMSMYRSF QTNDYASGFS NGMLKFMIVM SILAPIFPLS  
LGLTGPFPTA IALYWVSNNL WTLQTIIMM VILERKYPLT DDFKVHLEQ RDIYRAKQKE  
KRIFLWTRRK NRAMILTPW NASTLHATNV ELTKTRTAEI NEAKQARKEI ANKRRETQRE  
MNRAAMQRLK QRAAEVKAKK KGLIDASPE DTPESENEETK LSSPQVEPTT TAEPNREPSQ  
ED

> RXA00656 (1-261, translated) 87 residues  
MLALGWITWI IIGGLAGWIA SKIKGTDAQQ GILLNIVVGI IGGLLGWLL GIFGVDVAGG  
GLIFSITCL IGAVILLTIV QFFTRKK

> RXA00657 (1-903, translated) 301 residues  
MSTEDIVVVA VDGSDASKQA VRWAANTANK RGIPLRLASS YTMPQFLYAE GMVPPQELFD  
DLQAEALEKI NEARDIAHEV APEIKIGHTI AEGSPIDMLL EMSPDATMIV MGSRLGGLS  
GMVMGSVSGA VVSHAKCPVV VVEDSAVNE DSKYGPVVVG VDGSEVSQQA TEYAFAEAEA  
RGAELVAVHT WMDMQVQASL AGLAAQQQW DEVERQQTDM LIERLAPLVE KYPSTVVKKI  
ITRDRPVRAL AEASENAQLL VVGSHGRGGF KGMLLGSTSR ALLQSAPCPM MVVRPPEKIK  
K

> RXA00661 (1-690, translated) 230 residues  
MNPITELLDA TLWIGGVPII WREIIGNVFG LFSAWAGMRR IVWAWPIGII GNALLFTVFM  
GGLFHTPQNL DLYGQAGRQI MFIIVSGYGW YQWSAAKRRR LTPENAVAVV PRWASTKERA  
GIVIAAVVGT LSFQWIFQAL GSWGPWADAW IFVGSILATY GMARGWTEFW LIWIAVDIVG  
VPLLLTAGYY PSAVLYLVYG AFVSWGFVVW LRVQKADKAR ALEAQESVTV

> RXA00662 (1-1269, translated) 423 residues

VSTIPLNRLA VIAAIIGVGT GLFVAALNWS AIGVERLVYG ADHLHNYNPV ANVSPLRLSI  
TVIVLSVVAS WAWFFVHRTG PKEVSIVGAI RGEKMPILET IASAFLOVTT VAAGAPVGAE  
NAPRIAGALV GERFSRWLQL DIDAKRILVA SAAGAGLGAS FHLPLAGVLF ALEVLLVEAS  
TRTVVIAIIT TTAAVATTGF FVQTPDVEST VPLTESPWML LAAMVTGVVA GMCQHWFSAA  
AHKMAQASPK GVKILWQMP L GFVVIAAVIY FFPETLANPR WLADSM LGDG LILSTILLVL  
VLRTAMFLLA FRVGMVGGNL IPAFALGSMV GGVVGAVLEP ITNVPIAFA LLGAAAFST  
TMAAPLFGLI AAVEFTDMEA QGYLPIFLAV ASAVLAVRVW SVIAKHELRA IPITYASWTG  
ELK

> RXA00666 (1-387, translated) 129 residues

MTAGEAIAHS VRAAQIAEEH NYARFWVAEH HNSEGLASSA TTLLMGHIAG HTSRIRVGSG  
GIMMPNHSAL HVAEELGTLE AIYPGRIEAG LGRAPGTDPM TARELGRASS LVDDVLSTIV  
SLQNYLDTP

> RXA00667 (1-585, translated) 195 residues

MIALKSMSNR VVQKPKMKAP LPIRDGLNPS RVRLPLDAAP IRAIDFVEYL ISTQRHRNPA  
DNAEALQARF DADLVVNHYG EPYAPDTMVQ PDDDIWFYRM PAAERPIPYK IHVIHEDDDI  
LVIDKPPYLA TMRPRHITE TALVKMRVLT GNNDLTPAHR LDRLTSGVLV MVKKPELGA  
YQTLFARREA SKTYE

> RXA00668 (1-792, translated) 264 residues

MLTTLWIAVL VFTVPGLVVS WVSGLKVPWA IAASIPATFG IYGLSAWLLG LWEMRFDLHS  
VVISTLVFAA VALVWRLFFV GGWLVRRRKA RIRRQTLADE ERAENAEVSA GEPAESSTNE  
AAESESETSE RRGIRVIFD YMRDGGILDH RWLLPAAGAI TGAWLIIDRA VDLLLLSTEHG  
LGDIVQGDV HWHASTVRFI DETGIASSTM MGQLRNIETQ QDLFYPSAWH AGAWVLSVVG  
NLTIVEATNL TGIVLSGLLL PLAV

> RXA00674 (1-750, translated) 250 residues

IFAAALAFMG MFQLHPAPST IVIMVLLLWW LLKLVVVPSQ KVKGWKAGIG IRLKDVGILA  
ITGIIGVLFM LPQVISGSEQ TEDVLSYSAE EQVTRSESWL VSIFMETRHV DFFGNIDIVP  
VLVFAAIGGV VALVWRGNLW APVFYFASVA LTANSLKPFE EPWGDWLNIV GGLHYSTGHR  
LIMPVAMFTF AAAGIGAAV IRLICLGPIK KFTTVSGVVS VVMALVVAVP LQTWAKDFVE  
EGSETTILAP

> RXA00676 (1-747, translated) 249 residues

MAKNSRIRYS ASIKRAAAAI LTAAATSVAL IAVPATASAQ DLATGSSQIQ TDAREGAWAT  
RNTIQDQLAS IGPAALPVRA AVDNAINGMF PGLVDEKVAA EQEAARAEAE REAAAAREAE  
AARVAAEEAA RFDRGSCPAI ADVCVDIDGG RTWLQENGQV TYGAVPVSSG GVGQETPRGT  
FYINRKVKDE ISYEFGNAPM PYAMYFTYNG HAFHQGNVAT TSAGCVRLNT QDAIYYFNNV  
GIGDMVYIY

> RXA00678 (1-735, translated) 245 residues

MTRSNLPAWE QADPSVHASD PRAITFAEDF GIRPIPAVGP IDTTAICATP SNGFEQLWKA  
IEPETRTRAN DIHLPIVVAY AERLCDAVPL ADRELVLVAA ILHDTGWAHV DESRIISEGF  
SGNWRKAAIR FEHETEGCTV ARRVLP SLGY TVDFVEHVCD IIDGHDTRQV AYSLEDALVR  
DCDRLWRFRD AGITASSSWF GMPVSDYVDR LHREILPELI TEAAHQMATA DLNRAKALLR  
TDAIR

> RXA00691 (1-930, translated) 310 residues

MVEGNTIGCA DAGNGYQTL LDAGFDVETT VQFPEFLCRI NDFPGPDVDD CMTASPAEAY  
WSYWHAPLGG DEWEYSNLGA FLYYPKPGTV EAWYWGDTDR PGAIPVSKSQ AELGLDSADP  
DYKIDFDPND FITTTPTSES PIADLGGDEE PTETTEAPIA GAGAGSARGQ AAEPTEVNPN  
ENPNEVLVYQ DSEGNISITKG QYENLVAAAA AKTTAAVQAP AGAGEANSQP QATAVAEAP  
VDPMTTQVLM APAGQDGDVM AEGSTQQTYA TGTVDSSAQG WIIGLTLAVI SLVSASAVAA  
WAIRRSEVQG

> RXA00692 (1-1134, translated) 378 residues

VALATGVSL L APQVVAAQDA SSDIQLATQF IEKEFATNGL IPGPVGTPDI GLNQDLLLSL  
NALAPDSPEI DAAYAAIAPE LEGYVSVDY IFSDRLAKTV AFQDALGVRD ADFIAQLVSA  
VQENGQIKNL DNGEATTAIN NFSQAWGVLA LHRVGETEAA ERATEFLKTQ VCSDGGVQLA

SAIEPTCKTT DSDVTAMAAQ ALTLANGAQD PTTQATLDYL VTTMDETGGV KNTWTGVNSN  
STGIVGSAFA LAGDEENYLK AREYLASVQF GEDADPSIQG GFAFTVKAKE TNTAISDQIR  
RATGQAALGF AGGNYANDKL ITIANPVDPT PDPEIPTPPA DSEGSTGGIG GAGIIIAILA  
ILAAIAGVMG PMMANLQF

> RXA00693 (1-483, translated) 161 residues  
MWKEALEEFG SGPIHSGSYF ENYLPIDYSE AGFHYYLKER TDAADPSVPP PEGFVHCSYF  
WIVDDDDVLV GFLALRHELN QHLLLEVAGHI GYGVRRPSARR KGAATAALKL GVHEAQALGI  
DKVLLCVAGD NEASRNVIEK CGGVYESTIR GMRRYWIATD S

> RXA00701 (1-375, translated) 125 residues  
LVGEPRSDSC GEQRGCEQSG VAEDESEAGS EGSSAEDEDK EDCFKACCAG TEWSDYGNHG  
GEDAEHGYGF NVESVFTDFG DDSGQHEGND DRDVEGRLGF VGQEGFRVDD QRPEENHDAQ  
NRKEA

> RXA00704 (1-513, translated) 171 residues  
LTITFSRVAL TTLAVTATTL SLSTAANAQS SLLDKTLDR QCIDADNVWV SVDYGDSEK  
EPEGACATEF TDGVVALESA GFKLTFDESE MGKYMGTING VVPDWVETGT YWSYYSGEVA  
DDYSVDYTYE EVGASNSEPE GGTVEAWVVG TGEETPALET LSETSAATGS S

> RXA00707 (1-972, translated) 324 residues  
MNVQRKLLAI VGAFMAGSLA LGTPTAQAS IGSSASQRTS VLRGLTSSAG IPDATAPEGG  
AKVVVFQDSH ASGTNAPFDV DERGCLKGNQ SWPDQLQAQQ GLQQGELIDL SCNGASINST  
GFHFSDEVHR AEALGAIGPN TENIFIQFGK NDQWGHSPIN LRYSVINCLF DAANGCGEKA  
VAAGTMQDPS SVTGENYAQR MKPVIDYLKY YAPNAQITLL GYQEYTPRSG SEICVRVGGT  
ELRKPDATNL VSYMNNLESA IFEASEILDV QHANLREATA GHSSCSAEPW VNGVLDMRVN  
AVGGTWHPSK KGDEVTAGLL GTLM

> RXA00712 (1-549, translated) 183 residues  
AAEPTTRTTV QSATEASTTA PVQCNLDPRT SDFGPYLAQS RTPVGELAGS ADSVVQVPDW  
FYHFQMGDNG YDSCSKLSYV VLNGSNGDAE RSTGTGAAIA DVVVLFDIGH MVARPAPFEM  
KTVESVTRVS DSEIQVVYGH AGRSTAEGVT DYFTFNFFVD NGVLSGRGDL PEHIDTHMRL  
YLL

> RXA00713 (1-963, translated) 321 residues  
MTKVAELDQE WSEVDDAELD AQSAGTSDSS STDDFADAEN TSENLGPIGP EPLPEPDGDV  
PASGFQVQLD NFEGPFDLLL QLITKKKLDV TEVALAQVTD EFLIAYTRKLG ETSDLDETTE  
FLVVAATLLD LKTARLLPRG EVDDDDLEL LEIKDLLFAR LLQYRAYKQV AEMFAQWQWD  
ARRRYPRAVS LETQFANLLP PVSLGHSLKS FSELAADVFR PKPPETVKTD HVHQAQVAVSP  
EQAGRILNTL KLAGIDHYLS FQLLTRDCTA SMEVIGRFLA LLELYKARAI ETLQEEPLGE  
LKVSWTGIDV DPAVVAASDW E

> RXA00714 (1-561, translated) 187 residues  
MATITRTDRL ILVPLTVELE DEAHQIYSDS RIWEHRPQAR HTNVRVTRDI IKRTNESWGK  
KDLGPWGVYL RDRPSEFVGV GGVELIDGV WDLKYRLRPD LWGNGYATEI SNAATLATKR  
IDDSLPLTAR VTTNHPASFR ILEKLGLTPV WEGRRVGTED DPNEPDVRIY SDRPLSDEIL  
EMLKQRP

> RXA00716 (1-513, translated) 171 residues  
MESILLVVDV PVSARTLAGV LGIDVPATEA ILKEMAFELS ERGSGIDLRE TAEGWRYYYR  
PENADIVEQF LLDGNQTRL SRAALETAVV AYRQPVTRSQ ISAVRGVNVD GVMRTLQLRG  
LVKEVDVDES TGAHRYGTTE LLELLGIDS LDKLPDLAPL LPDVDSIDED F

> RXA00719 (1-1629, translated) 543 residues  
VTDKHTMPGE EDDTVFVYHT HKGEMDVEGA FADEEELAPH GGWASADFD P AEFGYEDSDD  
DFDAEDFDET EFSNPDFGED YSDEDWEEIE TAFGFDPSHL EEALCTVAIV GRPNVGKSTL  
VNRFIGRREA VVEDFPVTR DRISYISDWG GHRFWQDTG GWDPNVKGIH ASIAQQAQEA  
MSTADVIVFV VDTKVGITET DSVMAAKLLR SEVPVILVAN KFDSDSQWAD MAEFYSLGLG  
DPYPVSAQHG RGGADVLDKV LELFPEEPRS KSIVEGPRRV ALVGKPNVGK SLLNKFAGE  
TRSVVDNVAG TTVDPVDSL QLDQKLWKFV DTAGLRKKVK TASGHEYAS LRTHGAIDAA  
ELCVLLIDSS EPITEQDQRV LAMITDAGKA LVIAFNKWDL MDEDRRIDL RELDLQLAHV

PWAKRINISA KTGRALQRL E PAMLEALDNW DRRISTGQLN TWLREAIAAN PPPMRGGRLP  
RVLFATQAST QPPVIVLFTT GFLEAGYRRY LERKFRERFG FEGTPVRIAV RVRERRGKGG  
NKQ

> RXA00720 (1-666, translated) 222 residues  
MASPRRPQVA APRIKELRLT GLDNADPQDI ESNEQIESCR FNEAELSERD LSGAGFIECE  
FLGLEAHETE LRRAQFVETR IERANAPSFK AARSIWRNAT ISDSRFGAVE MYEATVQALK  
ISDSKLSFVN LRGASLRDVL FENCVIDELD LGQARAERIA FKDCTVHSLT FDHAVLSNVD  
LRGLDIERIS GVESMSGTVI SSLQAADLSG AFARHLGITV ND

> RXA00722 (1-504, translated) 168 residues  
LLPNGLLTR ELVSIERSSH AFEQSVVILP TATLVAGLAA VSVHEPAQPL AVDSYAMAEA  
AGSMRTATIR AATSAALTQA GACSKGDLLS FIGPEIALVS EELNDALSRT ALRLLDGSSE  
QITLLIAQDR QSAFDEDVFR RGLGTHDVE ITVYPATGME NLVEIGVE

> RXA00724 (1-648, translated) 216 residues  
IGEEVLAGRQ AYVVCPRIEG EGGVLEIHAY LSEQVYPGLN VGMLHGRMDT DLKDSVMQEF  
AQGEIDILVA TTVIEVGIDV ANATVMLIRE AERFGVSQIH QLRGRVGRGQ HDSLCLLHTT  
FDEDSPQGQR LAAISTTTDG FQLSELDLQV RQEGDVLGTR QSGSDTKLRH LSFISDQKII  
ERALIDATEL VAASRSRALE LVSDIAMINQ EYLEKS

> RXA00726 (1-141, translated) 47 residues  
HEMGFAHEVA DQVVFMDGV VVEAGTPEQV LDNPKEQRTK DFLSSLL

> RXA00729 (1-642, translated) 214 residues  
TVVEDYQEFT RGLFLGMVAV SILVPLGMMD MRDAKKRLAI VIPLFIICAM LGFFGTSFTS  
APRTDPSLIF VFICAAIAVC ALVLPGVSGS FFLAVGMYA PIMESLSNRD LSVIGVFLLG  
ALTGVILFVK VLSYVLEHHR TITLTIMAGL MLGSLRALWP WQDGDANLLA PGDNAVMIFF  
IIILGGAIVA ALMFAERVSS KNIDSETVAE EHPR

> RXA00730 (1-333, translated) 111 residues  
HFVVFQKQLQ QADPNAEYDL DVLAFDIARV ANLLRWAAIT DILLPAEARW FQDQLGIAAA  
VSFGSWEEYG ERYVRGLQKN FKGGNKPYIE GERWLNTEAE SPWKTQKWIS A

> RXA00731 (1-2472, translated) 824 residues  
LLFGLRWLGR SLRFAPLSLL MIVVMRGLRE VFGAEDPANS SLVDNLGLTL PWSLNDPHFL  
TAGFSASTTT AALMSTLWII VFAVPSEIRL GSLKFAITAA LIHITSIPLG IGIAHLIEEA  
DLNRWGNMML ADVLLTPDFW VFGVAAFASA SMPLLWRRRT RLFLFTITLT LLLYTGTLD  
VTMLTATIIG TVAGELNRHR KTPGGRWLPG SLTVREARIM TAILVTAVAA GPVLAALNPL  
THGPFSSATK LIWQPLVTEE HMMHLCHTDS TSDACQGALD QLQQHGVGPS VANLIPLILT  
VVLAMGLSRG RRLAWILAVL AQLISIAVLM FQLTKLSADS TDLLWSVNAF SVIVPWLVAL  
AVLVFSRRAF QVKIDTTRIS KSLGALMVTW LATAALWILA TLFLPHAFHP HPTLGLAFKE  
LPFRYLPPTI ETVLSHQLEP RSPAGWAVFE WTGTLFWLVV AATLYHLLMG VPSNKAHEDQ  
ENAATLLRSG SGDHLWSMTI WGGNTYWWAP ENAGYVAYRV KRGIAITLGE PILGPDSSVS  
KAELAAQFEE FASNQGWIVA WYSVCEEFSK ERINAGHHTL RVAEEAVLSS ANADFKGKHF  
QNVRTARNRA AKEGVSSIWT TWADLSAEMQ HKIITLSEEW VSDKALPEMG FTLGTVNELS  
DPDTYLLLA DEEEHLHGV TSWLPVYEKGR IVGYTLDVMR RDPQGFKSVI EFLISEAVVI  
ARDHDLEWMS MSGAPLSTPP GVADDGTIGQ ILELLGRAME PFYGFRSLAA SKNKFHPEHH  
GWYLCYRDEL SLPSIGLAVA ACYLNEFPLP NWLKKKTATSA PSHS

> RXA00738 (1-288, translated) 96 residues  
LLNDATTQVS HILGNAFTRS GLNAEYANLY GQALVGMVSM TAQWWLDERT PPKEEVAHI  
VNLWCWGLTG MEADPKLTPI SSAEGAIFGQ EKESEA

> RXA00739 (1-816, translated) 272 residues  
VTATVLEPQP VQLSEQDVDA EIARMELKHN RHKTWRRRTM AVVMTLLISV GLSFGAFGNK  
EREANAFASA IIAQVVGAMG EVAFEAICPS DGDTEMLLKC ITENLGEMHI IEKCLEAEDV  
LKCFYDAKNE EQRKEQNLDK APDYSMYRMA SAMASFYNG RAATAGVEEG GPNEFLDSED  
AGLKVWEGIL SKAANGGNVL GYADAKHNED SGWFFGNGVA NNEKTYSYDS LADHAFQGPY  
HFALFGATLS GLGFDSSKAE DSQTDFAQRK GM



> RXA00740 (1-579, translated) 193 residues

MLKNKTLALL AVSTLMFGLS ACSSDADGPD SSGASSSSTG SSSASADTTD SAAVDKDAQL  
DTFMRSVAVD GSSAAVAVDN AVGKGFADKAD AQAAAERLGD GFQFAADYQA VGYLESWYFG  
GARSEKLDEV RSDVIAHLSE LGFTDLEAES SASRITLGDY CDGVPEYCEL FFDGESPDLY  
DMGTELDYSYK PTE

> RXA00741 (1-933, translated) 311 residues

MTDSSLVSIR KGLIEERPLT ELLRACIFLG SDTNSDSLQE WAKNELNGYG SIDGIPEYRK  
LKGPVFAKI QAGNSIMSNM VLGPHNVPER ARKYFPEELH FDQPIQTLIE WSTRQDGINL  
SPPNLLRVRD ~~LHNDQYAPLN~~ ~~QILNENLVYLD~~ ~~NSYFSGIVDR~~ ~~IRTLMTSMIA~~ ~~DLTHATPLDE~~  
LPSSEKVNAT VMKHIENNYE TTITQANGAV AIGNSAKAVQ KGLSVDDLK IMQTINPEKF  
DLGEARAEAE ESIIQSIADL KKEPKNKGI QNAFEKLKEL SIKAGDKAFT TMLNLVGKQI  
IENIPQLVSG G

> RXA00742 (1-1650, translated) 550 residues

VNVQIKGRKV NAKAADLNSY PVSVDLGRF VTLAGLLFFV VDIKKSNNK YPKYVLLKPF  
YIHDLISKAK PGQKTISVRL KRLPSDEDRM EAIIALALAS RQEKIVENPS NYLYENMESI  
TVKSAEPLNR DKLAVYDGSS PDHSIIIRTG DGIEQFVNAT VEIIPNMQF HQANYNVSCN  
GVVYDNLHR NIDDEHIELK IGKGITLRLQ KLAIDAPGSV TVEFQDSLPE RLKDIEFFLG  
VLQANTFFIN EEPVVLKINS NRTVADLKDE AGVLRQLVEI ANHFNIDPSL IRIGEITEKQ  
FWQLDIVYRT AVKGEYVKNL EVKDETRLIL QPFGRWNLAL IAHPGDVAGE WTYHEVISKR  
HHFAMTPSTD RSDSSIERVT PYELIDNRWL PSVLNLHLDK LVDFYSALEE TVDVNDLATW  
MVLRLIKAAD SEQSRKTAFL IAAQALNDWL VERDREESPI YRLNGWQILY RQTGLLDSQR  
TEIRSFHNL DQTMHPDNYS EIMIGCALLL DDREEANFLL TQLSVDRRAV FNEWPIAQLM  
TGALKEEIEK

> RXA00743 (1-423, translated) 141 residues

VQHLVLADVK YRELSALSVK IEEPSDRPEF KLGVTVNDKS KDEEGVPRII EVSLRVSIEV  
PDGKITVEPE AIYLIPENKV YLTESDAMVD YFNNHAIFTL VPYARQAVSD LGQRAFHTQI  
LMPALGPGDL VFSKSTASRE W

> RXA00745 (1-534, translated) 178 residues

VAYLYGSADG MLNTDGFNMF PRASYTILGP MDADAVGVYQ QLLNSTIPMD LARLVTHNS  
GASYLRRGAT NVVFETNLAL GVNPMKKRR ATEAQRGKKR FKRDSHYGGG TVTTGTADLD  
VVAMQARAEH REERLGEKST RKKEELAAVE AKELAACKGP QTVEEGLAAV EKKHLAKR

> RXA00746 (1-1191, translated) 397 residues

LVHTDRVSIH RAKNGVRRTR KHIKTICIKH PIGRSVQISH SPTALSDAEN NAELTTAQIL  
HIDPVTGVAI PRQNILLED FQTMASFSQ IRHGWGITQL IGQDPNRNQP IRSADTWTVT  
GSTGLTGFTN ATHNTDDTDA TAAVTMPASD PAVGLCALES NKDAPVDEFR DLSLSALRTA  
TVMSSSGSAV ITMHDPVMMS TTGALEARAY VDGEVINQHD LDSLRDQLGI TTDSADTTTPA  
LPADPLAALG LSTPTTSALV PGLAELDCLN TDQARTWHDR DNSIGTGKPA ILAVINAELA  
DDYTLQILKN STATPTDSTD SSDTAERFVA QLPAAETAFVL IDPDIGAVTD LFFINSINQD  
LPAPTTQINS VAVDQRDPNI IYATFANDDR VYQLMLG

> RXA00747 (1-588, translated) 196 residues

MTFLHRSASF HPRTHDHLSE LGLDPYKLSQ DIPTVIYEVQ PHSVFILKFN TADVRVYQEH  
SDLFVRHAVL VDPEQRKHEH DQLLKEILD L DAPRVNDDIS GRTTVFLHDK TVVTHSGGPI  
AIIPHNPDA SAAASANKHK QSVMTTSRHP YAQMSLSMML KQGFTLTPLE FPYCAVDDPD  
SSRHTMHVIN VRDHTV

> RXA00748 (1-444, translated) 148 residues

MTYFALVARN YAETGVSVEF HEVDDADNS NGPNNTSNLP LKLLRDHSFD ATVVYGDVLV  
HTSAHLRDTA IANSNRPV VTTAQKFFDY IRLATRHGAI HDMINNAPDT GTDIVVITAT  
NDALISDESE YYDELFHILE SAQGVILK

> RXA00749 (1-699, translated) 233 residues

MLRKTVTGGI VALIATATLM NSVSSAEVS GDVSAVDLAF AEFERTTAED VANGVPEAIA  
NAEKISNFTP SELEGFKSL ASDAVLRVS GEEILPDNVE VVQTDNVGDE DPNVISPAAW  
QGSYIEGCL TNTLYGIEVL KVCTGGTYYS NVGIATSVSN PRSYVKYNSA PGLAVTTSNP  
RGGIEGLLAA FYGDVNLVAF PNIPWVGPI SSAGTHRVVA RSFPNSVVLN VYY

> RXA00750 (1-438, translated) 146 residues  
MDWSIIINVL AVATVVILTL IIAAALYRGF TRNKIKKLEA IREAQQHERD NPTIRIADLR  
GIMDTHHYIY TDVMVTRAHE LMITAPAFFD VTLPEAVLYE DTKRAAHDAL NGYKDTTVAS  
AEKIMLVDAV TAAWTLYSTK ANTGST

> RXA00751 (1-828, translated) 276 residues  
MLVRSRTLVT AALSCSLLFG ATVNGTGVAI AYENVSMMAQ YEPRYESLET RLGSSGVFPK  
SVEQSVENLA ELPEETRFLF EGDSFSIIFD DGLLASRLDP NTGEIRHTLG ASGISYTPGE  
MKRSYTDVRT VKVVYPDGSF DRVTPHSVVY VADSIYYGIE STGYPKVRNG QTVKIPLRVT  
DGGTGAVGGV PQGSKVVRDR YGSIENAELM GAILLIDEKT GDLTFTAPDD RTGQLWFRTE  
VTFPDGSDSE VQYVIEVTDQ PEPVDVIRPA GSSLSS

> RXA00752 (1-429, translated) 143 residues  
MYSDKLILLF LSEQDSSYEC CVGLLDGSDG LDYIEKLLKG RKLKNHFLEW EDINKADVAR  
EEIYKQQLVH LVFVTALSTP GEISFVFPQG SLMSATLEED FAALVLEER TSFRPELSHL  
WSLPVGWVAP GLEGFVERNS EAA

> RXA00757 (1-1254, translated) 418 residues  
VSFGVVKRPD ACYALFAILI KRNQATAVSA PMARQRQWV HARRGHFERV TRSEVELSAL  
LGGVEKLSDF LAEYFQLVEI GAGIRIYLDG DGGFWTCFGH FQALEVEFVG CGERLDERRQ  
NFSGWKSHKD KDNLPKIIIG LLHCEAMRRR IPSVLGVSL AAFLVACTPS PNPNAALAQ  
YQDALFDSQA MSEAEPELAT LRSQHAEDEL AEIRRICGFD EGQVPESCQV TVPAIAILPT  
DDPEKYVND S QALILDNLDD IPEDSVALV EQYIAQAEFA EGSEVSVVPD LELTEAELAA  
AKDLADREFS AAWSLGVALA QLPETDREEV ETAISNHDR ASQLQIITSG TTPAPGYVSE  
LPDPTDETSR RSNIETVENN VTQAWHAAS AATDAWRVF CAHIAGDTAR ELTLIDVS

> RXA00763 (1-783, translated) 261 residues  
VEKSRKRLVT IAASTIGAVA VAGGAFWIVD ASIAAHAERN LSKAVAESAD LENDPRVFLG  
SSIYSTAFFT GKLDVSIDM LDVEIPGVGM VNARTEVESV EVSRDQILSG DLDGTTAETF  
TRTLRMDGVA IGAQLGITDL DISHPIDISP SGGITSEALL TGTPDMEDP VSVLVTLRLV  
GSEFQMLPYE LIDAPSGTL DDVAPDFTWK IDTLQLPLAD RAMAVYLSGG SVHFQSEARN  
VQLTTRELSP LAAPEENSDE S

> RXA00765 (1-687, translated) 229 residues  
MSENSTPNNP VVPAGAGADP SLSDSASISG SDAVNLAEEQ SKSTAHRNIP GLGDLPIPD  
TANLREGPNL HDGLLALLPL VGVWRGEGQA DTAEDGQYAF GQQTFAHDG ENYLSFESRM  
WKLDEEGNPT GVDQRESGFW RINLKDEIEF VCTHAGGVVE IYYGQPLNER AWQLESASTM  
VTATGPSTLG PGKRLYGLLP TNELGWVDER LVGDALKPRM SAQLTRVIG

> RXA00767 (1-714, translated) 238 residues  
VGTIEDVANE QIEVANNTDQ IPAGYKSPLL SRSGAAEAQG AAAQAGTEGV AWHYGSPLVE  
QRIFETGTGL VDRSNRKVIK VEGPDAPTFLL NNILSQKVDS VENGFTAGAL DLDAQGRIQH  
TMQVTVDGV FYLDTSAAEF DTLIGFLTKM IFWSEVTVQE ADLAIITLLG QEIALPDAVF  
ARRVDWNGPS RIDVAIRREN LEEGVDKLLE AGAKLTGLMA YTARAREGVG ARCGRGFG

> RXA00768 (1-444, translated) 148 residues  
VKALEPAAGV DLDDKTIPHE IPHWIGRGEH LGAVHLTKGC YRGQETVARV DNLGRSPRVL  
VLLHLDGSAP LDPVTGAEIK AGARTVGRLG TVVHDADYGP IALGLVKRSA LDKELHIDDV  
SVNVDRDLLP AEESEQRGRA AINKLKGL

> RXA00769 (1-213, translated) 71 residues  
MGRGRAKAKQ TKVARQLKYS SPDMDLSLQ RELANQSPRR SYSDTPDDED QYAEYADWDE  
DDTDNRAYGT N

> RXA00771 (1-678, translated) 226 residues  
MTNPYEAFIG LKHRTGIEPE HTFEWENKR VHIARRRREA PVRVIVVHGL GTHSGALWPL  
VAAIEGADLA AIDLPKTPLY DDWLRLLESF ISSEDDGRPL ILIGAGTGGL LCAEAHRTG  
LVAVHIATCL LNPDSQPTRR ALFRFSPLTR LIQGRLENRE IPVTRVLNFS KISRSPALSK  
LCAAEFNGA FKITWGFLAS YVQHKAKLGA VPLTLMHPDH DLFDSR

> RXA00781 (1-288, translated) 96 residues  
MSENKNIEIV HNEGQKRFVI SVDGTPAGFA SYLDGPDIRN FNHTVIKPEF RGQGLSAPLI  
KFALDDARES GIRIHDACSA VAGFIQKNPE YKDLKN

> RXA00785 (1-621, translated) 207 residues  
IIATLGVTLL VEARGLFLTV ASIPILFGIF TPLTSWFVSQ QGVAANVSPG VSVTEILTAV  
YPLAQLFPTL IMVTLVAAAL AVVRIILLRR NQESRQVSGE LTRRAQREAE EANQNAARRA  
RAQSTRVQSS KTRNRRAQPT GDTGSQVTV D ELIRRSQERR QTVAQRQTER GVPFTPTPGP  
VVAPKPRPSA PEAPAPT DVG ERRQAAP

> RXA00788 (1-225, translated) 75 residues  
MASSINIGVF NLGNAVAWL AGATITTS LG LTSAGLVGGL MTSLGLVLAI VAVVLRRAQ  
GTQATISVVE HQPAQ

> RXA00795 (1-528, translated) 176 residues  
MIISLVSAI IMLVAVGFTG MCSFNTGSPE NGQVPEVDAS TFMSMEARAM TDHATRLPET  
PEGWTTNSAR RTMVDDTPAS VVG YVTADEG YIQLTQTGET VEDAVAGYDT RWRDLSESYD  
LDGHDVGIYT SQESDVRDLR VMDLGDARVM VSGAATDEEF NDLLRAVANS EPLPTN

> RXA00804 (1-444, translated) 148 residues  
MKIRSAREIA EWFVAWGDEL DAEVSPLKLQ KLLYYSQGEH IAATGRKLFS DKILAWQHGP  
VTPGVYSDTK SYGRNPIDPD EFVSDEFNWD DYSDVDELV TVWRKYGIYS AWALREKTHS  
ESPWLDAWAQ GQNIETDAA LKDFFLVH

> RXA00805 (1-882, translated) 294 residues  
MAESFIEVSA GHADRRIDKF LRAQLKG VPA SLIFRQMRKG DIRVNGRKVD PNYRLQEGDR  
IRMWQMDLLA DLPPP VVDKH IFKAVADSVL FEDAE LLVIN KPAGIPVHGG TGHGGGVIEA  
LRQKFPQERD LELVHRLDRD TSGLLLVSKT TSVLRELQEI LRDREEEIFR GYLLKVEGAW  
PGDLRQIDVP LKRTETT VVP HSDGLRARTY FEVVKRLPGA TLVKAQLATG RKHQIRVHAQ  
YAGHPIVGDP RYGSRGGRAA TMHLHAAELV APRGAGKRQK FTAPLPKEWG MGRV

> RXA00808 (1-678, translated) 226 residues  
AGFNEMMRGL RERQVRDLF GRYVGAEVAK RALEERPTLG GEDRKVAVLF VDVIGSTTFA  
VNHTPEEVVE ALNEFFEHVV EVVHRNKGVI NKFQGDAAAL IFGAPLPLSD ATGHALAAAR  
ELRAELKDLO LKAGIGVAAAG HVVAGHIGGH ARFEYTVIGD AVNQAARL TE IAKTTPGRTV  
TNASTLREAN EAEQARW TLM KSVELRGRSQ MTQIARPIRP TLADRS

> RXA00812 (1-1059, translated) 353 residues  
MNTITHQAIL IAVEDPVLHP EAMHVAAATG RPVIETTNLM DISRHFHRTS AVLIDASMAS  
QLSPGKRRDR VFLLDSDPGP SDWKTAMKIH AEQAMLLPAQ AGELLSALGR DDKQLPVASG  
HVIGVAGVVG GTGASTFAAA LAKRRAESVT TVLIDADPSS GGIDLLLGIE DVPGARWPDV  
GLRRGTVQAA DVLKALPSTP DEVVVLSTAR SNILDPFALS ESDVSAAIDC FLSADRSVDV  
VVDLPHARVH PDIAERLSHL VLVIPA EVRA VAAARARCLE LQQLHVSITC VLRHRGWSGL  
DVAEVEEILG ADITAEV GSI QRLAKSVEMH GLTGSLPRVL SSACDAVLGE VAA

> RXA00814 (1-774, translated) 258 residues  
MVYALGLLSV AVLISGSRGP GARTRPPTPG NGVHLFALIA LFCLATVLF I VVDAYTMIAG  
IIIATTLFWY LRQTHAAQR TKQSLQLASF LSLCAGNLRA GVTMVDAMDY ALDNTTPDKF  
LSPTLQTAAR QARSGSGPR VLIDASLPDL QRLGHLWETS ERHGIPLVAL IDQMRSRISS  
KQRHGESTRA ALQGPQATAV ILTVLPLAGM LMGTAMGANP LGLLTGGGIG GFLLVIGVGL  
DAAGFVLTHK ILQSASPS

> RXA00815 (1-573, translated) 191 residues  
MITALVLA AV AMFLGSPNPG VRGGLISPKS GKSLRIRAGP KKLGNADPVD VSADIELFSA  
CLDAGLNTRD AAQVVAHVAA ITHRELWTHV VALLSIGVSA PQAFALMAGV DGLDELANLA  
TVSHRSGSAL SDGCRNISTS LLASAGDKRT AAAERAGVFI ALPLALCFLP AFMIVGLAPV  
VLSLGTQLIN F

> RXA00816 (1-297, translated) 99 residues  
MTIASAGVAS ILISLLVLA WQAGNLVARE QAQVAADVSA VAGAYAFARG ELPDAACATA  
KHTAEANNAQ LENCATEGED LTTLTVTRGQ EAHAKAGPL

> RXA00826 (1-531, translated) 177 residues  
MITVLIDGQS GAGKTTLAGL LAARTGFQLV HLDDFYPGWT GLEAASEIVA RHVLADADNPG  
FFTWDWHNNC QGDWIKLEPG RSLIIEGSGS ITAATKRKAS LLGELVTVRI TGPEALRKQR  
ALNRDPDYAP FWKVVAAQQEQ RHFSLGVEVD HEIVLGSDEA SGRPEEIYDS LGTAQSS

> RXA00830 (1-723, translated) 241 residues  
MENPGDLGAM PQYGFHISM LITAVVLAIL VVPIARRFNF APAFGWVLLI ATLLSNLWNF  
MPGYITLDQS WPFHFSDALR IIAAIALINR ARWAVSVTIL WGTINLMSL LTPDVQYLQV  
PWLEFLMYWF MHISVFLAAI ILIFAFGEKP GLSGVMSVA VAISWGIMCL MVNAFLGTNY  
GYLSTEPESA SILDLLGGWP FYIVAELLL CAVWALWSYL IDKLPITYRP AYRPKTRKAA  
A

> RXA00831 (1-702, translated) 234 residues  
MSALETQWQ DWSSVLIVVA HPDDPEYGLS AAVKEWTDAG VEVSYLLTH GEAGIQGLDP  
KETGSLRAAE QRAACDVVG RNLITLNHPD SMLVYNLVL KDIAREIRIR KPNVAVVSNF  
DVEAYGGLNQ ADHRVAGLAA IDATRDAANP WAQPELLQED LQPWGAEVII IAGHPPTHT  
MDLAKDSVDA GVASLQAHKE YLAALPDPPK PEEFIPAFLE VEGGYAAAFR VFGR

> RXA00835 (1-690, translated) 230 residues  
FAPWALTPIL MLGGSYLCFE GAEKIWHSLH RRIKGEQHS EPKSQESPKS EDQLVKSAT  
TDLILSAEIM VISLNQIADQ TIWMQAAVLF VVGIGITALV YGVVGVLVKM DDVGLTSLKR  
DSAGIQKFGR GLVKAMPIVL QVISVVGVA MLWVGGHIMV VGTEELGWEL PYHLVHGLES  
WANGIGGSAL GWVGNTFGSL VFGLIWGAII TVVSVIKKF IPQRAQNSSH

> RXA00836 (1-1671, translated) 557 residues  
MYTHSTGTPQ LDFDGDYPL HLFSAQTAQ HFALERNVNH VLRAIVKPEQ GELIVEALLA  
PIESATKIGV WVQDEFLGVI AESQFLNSQ LSRIASGHL ISSQLLLTPS KGSLASVLLP  
NLKFGILSND PPRADSHLLP LGRMWRVEPT VHALFEDFSL GSTILFGLRL DLEALIVSYN  
GIECGILNFD DASALSSAVK FSNANGLTPT VLGHVVRENG ETSFEIDVLP LELWSKKQHR  
LEVLIKIPRLI PKEADSQNYV KATALLSDEI LRPQTLSKKA LSLSDTAVKY SPHVACGVGM  
FSLFAVIPFD KLSDHSAMLL AVISLMLFVL ALVILFKRIQ STNTQRWNLA SSVGLLATLP  
IIIFLVADTL IPQGSLENHA QPDVQVTTLA NRRPSSPTSL DSLGALNSPS SPNSPSSSML  
QNSEMFASPP IASGQSPVST FRSWLDRLS PLTRENSASE SAVTALGPSI VQPASESITT  
PAQTSQSRHA IDGDGDSKTS TGRPAPTNS PIALPPTWI IGPEDPESTD PTAPTEPTEP  
SEPVATDEPS ETSEQTS

> RXA00840 (1-714, translated) 238 residues  
VTKTLPRLLT VAAALAIAP ATPVASAVT VEQAFNASSN LSSGLPVDQW GRPNEQFRQQ  
IEQAVNPVW PQEIKNIVSQ AMGFITGDS EGGDIEIPDN APRIAQFFWP TRSENCINGN  
SAAVGSAFAV PGPADLPLPG AGVGQTSFVF TALGTGPLAE QQSTAMTVQW ANLSNFTHGT  
TTLSNTGINP DGPSTISGVA DTGRGIIVAS MSGGLTTSTE NGSANCNFIP TAVVFDVR

> RXA00841 (1-537, translated) 179 residues  
MTDLHPVKQE IFNTAESINT DPKGFLREVD TFKVTDFGLY MARGANHPKF GYLESWLLPE  
LGLRANIFHF RKGVDERQDY YIDVAEIRVE DNIWTTTRDLY VDLISVCGEPTVTMDIDELA  
AATSAGLITA DDAERAIDAT LNAVEGITRH GDDPMQWLRS KGIELTWADA SQVELVPAE

> RXA00846 (1-387, translated) 129 residues  
MLKNDLSGAR VVAVHAHPDD EAITTGGVLA DLAARGADVT VITCTLGEQG EVIGETFAQL  
VNGDADQLGG FRIHELYASL EILGVRGIHL GGAGCWRDSG MVGDPAHEP RAFIHSGDRA  
VEQLKELLA

> RXA00853 (1-603, translated) 201 residues  
MPTSSSPATV TPLKKQSSRK QLQDIALIAV FAALIIVLAF VSIPVGTAGV PIVLQNASIV  
LAGLILGGRR GFLTALLFLA LGLIGLPVLA GGRTTLAALA GPTAGYIVGY LISPLVAGII  
AYLAPKKRGA GMFIVLGLAG LAGLITQYAC GIVGLVLRAG LSLSEATIAQ GAFVLPDLAK  
ITVMVIIAAG VHAAFPDIRK K

> RXA00854 (1-213, translated) 71 residues  
MRLSEFRQLI EDEFGEAKGE WIAHSHVIGA LGVTADVAVD TGVDLRDVWE QLCIDFSVPE

ERRLGKDEPG F

> RXA00855 (1-285, translated) 95 residues  
MTYFAVLYTY NPDSEKVAEV RTVHREFIAN LHAEGKIVGS GPFVDGDGGA LIVIKLEEGS  
NLVDAETLMN NDPFHVENVL DNRVIRSWNP VTKDF

> RXA00861 (1-426, translated) 142 residues  
MAPHKVMLIT TGTQGEPMMA LSRMARREHR QITVRDGDLI ILSSSLVPGN EEAVFGVINM  
LAQIGATVVT GRDAKVHTSG HGYSGELLFL YNAARPKNAM PVHGEWRHLR ANKELAISTG  
VNRDNVLAQ NGVVVDMVNG RA

> RXA00862 (1-564, translated) 188 residues  
VTETETANPV TTRTPSDAA PSPTTSEPTG SESTNSPSPT ALPPLGSPSM DQKQQAQVGD  
SDMSIAGIRV AEHETFTRVV FDIAGNGQPG WWVDWATDPI QQASGLPVEM AGDSFLNVNI  
QGTGYPDQVV VPGIDTGSYP GAGIVEDINF TSIFEARSQV LIGVSGQPRN YSVSLLQEPT  
RLVVDIVH

> RXA00869 (1-792, translated) 264 residues  
LFIVAADHPA RGALAVGDNE PAMANRYELL ERMAIALSRP GVDGVLGTPD IIDDLAALGL  
LDDKIVVGSM NRGGLRGASF EMDDRYTGYN VSSMVDRGVD FAKTLVRINL SDAGTAPTLE  
ATAHAVNEAA AAQLPIMLEP FMSNWWNGKV VNDLSTDAVI QSVIAAAGLG NDSSYTWMKL  
PVVEEMERVM ESTTPTLLL GEGGNDPDA TFASWEHALT LPGVRGLTVG RTLLYPQDGD  
VAAAVDTAAR LVHTDIQQFT SQSI

> RXA00874 (1-1089, translated) 363 residues  
MSIGQHIITE RFYGAKSHTI DNVDIVLSRE CGENTLAVVR INNALYQLLV NDDGKDVLDND  
HVEEVGASFG AWTGSSAFPI GPFTPLGTEQ SNSSFITADN KAIVKYFRKL ESGQNPDEL  
ISKISSCPNI APILGFSSAE ISGANYTLVM AQQYVPGLDG WSHALTTTSG SFAEDAEEKIG  
EATRNVTAL ASAFPTRVVP VEALADALTT RLNELISQAP EIARFKEAAI DLYQSLEGEA  
HIQRIHGDHL LGQLIKTPER YILIDFEGEP ARPLNQRRLP DSPLKDLAGI IRSIDYAAYF  
DGEHTQWANE ATALFLDGYG SIEDQELLNA YILDKALYEV AYEINNRPDW VKIPLEAVER  
LLD

> RXA00876 (1-1755, translated) 585 residues  
MTLKIDPSSI SSAVSRLNEL QHQAITASQV GMKSTILSAF SPVSGLDQLG SGHGNVINGG  
AGAANSVLNS YAEQIEWLSA ALQASGAALT GQDELFAARGM DVADTGGRVV EESVMFPARP  
APRFESFVFN PPAVSPSLSL DALCSQFSGT NSGAVLEAQG SWGSMASAIS NVSASLSSIA  
GEILAENSGE TFEQAAARIN EVAAAGATFA ANAKMMGASV GTLNRIYMGH RMQVFMAATS  
IKAILDPVQR LAAERAFLAS FQATFQADV L TMPPVSNLM QMKGANGSAG EIALGMDEIA  
GSGQAWSAAG LTPSGAAQGG VANAGSIAPD AAVQGAAGQS GVGSGFTVTD QLDGINIGDM  
LTSASAGQS LANGLAMPTS TPNSASGAIP SSMSAASPLG AFGSGAGLGA QGGSIGSSAP  
GAISSRAAGS AGGSVPGMTG GPGAPGITS SLMGARTHGA SSAGAVAPMM GGAGGMSGGV  
VGAGGTGSQS KYARQTGSSV GSSSQSGSGL GMVSGSGSKP SISNFGRGMM PMMPMPMGG  
AGGGQKNTGK VKTVTSAVEE DRNLAALLGD RGPVVPVIG DWVRG

> RXA00881 (1-378, translated) 126 residues  
MSNTETQFDW DGSTWTRTEV GEAPTRFAVG VMEDFAYIAA TGTGDDEEFF TLGSNPGLTF  
GDPEWLFAQD NPQYVVECIG QQGTEPAALK VVDKYLRLS DEESRGEPTL ILNELVSAME  
LPALPW

> RXA00882 (1-678, translated) 226 residues  
MSSTTAQLRH RELTQEIYNI GDEVAEYIEH IMEAVSDWDL ELVEDCLAEF DEIITEARDD  
SRTVVAELSG LRHALTTGIR QGTVSARATV EVDVDKPERL TASELERDFD IDAGLVVDVRD  
LSTALNARTD AVVKRLEATV EWVLAETDKV ANDLDSLSLP LLYGRVAABI ESATSAWINA  
VGTANPAYVR TMRGSNPPRF LLERARIDAV VARVADKLAQ KRNAV

> RXA00883 (1-519, translated) 173 residues  
VQGMKRKMVA AALATALLFG AAPAHASELV EPTTVAESVA LDPNKAINIL TPDWEDIEA  
KPGDIVHIPY QGTRNYEDLT VEVAKPFEDF QILVGLDNSI VIAVPKNLSG AASVAPVFTV  
SDKNGEIDSF TIKVSVEPRR QSDEEKRSAL FDVISELAYR MPHLPFVSEL LKY

> RXA00887 (1-723, translated) 241 residues  
 MSLPVSFISDS AAGPGETIEL AGPEGRHAVT VKRIQVGEKI SLIDGRGTAR TCTVTALQGK  
 DRLNAVVDLV EEIPAPNPQV TIVQAIPKSE RSELTIDLLT QAGADRIVAW QASRCVAKWG  
 GKEAKSLAKW QVAEEAAAKQ SRRATIEPIL GVVGEEGVEK LIDESDLAII LHEEATAAIR  
 ELEFSGNVVV IIGPEGGVAP SEISRFVDAG AHTVKLGPEV LRTASAGMVA LAAIGVLSDR  
 W

> RXA00889 (1-588, translated) 196 residues  
 MSIEVFNESG YDGVNEEMLI DVLSFALGEM DIHPDAEASI HIVDVDTIAD LHKWLDLEG  
 PTDVMSFPM D ELTPGYSRPD GATPGPAMLG DIVLCPEFAA KQATKAGHDL AHELALLTVH  
 GSLHLLGYDH VDPAEEREMF ALQNELLDW YDNVEARGVT YQPKPSGAGA FPTAADRLEL  
 DEKMEADDSG FGGVES

> RXA00893 (1-597, translated) 199 residues  
 MVESQHIIFI PESQQTPEDEF TEVVNEIPAG IKPRIVPWSG SVSAGVQAVE SILDREEIRR  
 VILVGAGTGA GVALEIAKNQ PRRVERLVLD SPLVTFDEKQ LKGMSTALKM MPGFFFRKKN  
 KKDLLQQVEE ARTAVPMGFS EITMPTLIIR GSAAKAGIDS DLEKQIP SAR ATTIIGANWL  
 TYTTHGRQTG AAIAEFLAQ

> RXA00895 (1-591, translated) 197 residues  
 MRGLAMILIA VAVLLAAWAL WSMQKDDTS TTSAGQTQST ETNAGTIAES SGSSDSEQAS  
 AEPGTSEETS AEQPAADGEA ANAAGAAAAG GASSANGNST PVNTLYVLNN STVPQLAARV  
 ADSLSGDYQK VESGNLPDTI IPQNTVYFTA GNTAEKAAR ELADRVSGVA MERSDALPTE  
 TEGKDALVLV LVQDVAL

> RXA00903 (1-633, translated) 211 residues  
 MGNPLAVIAD ADDLSAEQMA RIARWTNLSE TTFLKPTQE GADYRVRIPT PTGELPFAGH  
 PTLGTAHVFR ELHGEQGTQL VQECVAGLVA VRAIDGPASG LAFQAPPTLK DGPLDASDL D  
 AACEALGISP DFIRAHQWVD NGPGWAVVEL PSAQHVLDLE PDFSAHPTLK LGVIGAYPEG  
 APHAFEVRAF AOGIGEDPVT GSLNAFIAQW L

> RXA00908 (1-558, translated) 186 residues  
 MSLYTRTQNT RHSTIIEFRR EQTRNHTMEP IQSEPRIYAD DPFRARFGHQ LPRGLREEAR  
 GMEWRTFTNT YAPTGNLRIS NLESEARRGG MFHFNATLIN NCQGERTTT AHIMATGPVS  
 ACTNLLADAG RRVEILEFHQ FDIFEATVTF IYTCNNVSRT WAMGFGGTPE QSAASAMSSA  
 AHLLYG

> RXA00915 (1-510, translated) 170 residues  
 MSAAYSQDTI LTVFLGRGLT AEGIRQTLED FAETGLVRNL VWIDADSFHE SSSEVTHLAT  
 NQDGLPELQR RPFNELVSRS RTTKLHIGVI NVIDGSEGML HAEELNPLVG IIDSVCSSHQ  
 IHRSNVMIGA VAATLDEELP ILRGYVNLML APEDSHSPGT ATVTYRHGFS

> RXA00916 (1-3591, translated) 1197 residues  
 MKKVLVVGCG GSGAKTLAYM MDQLKTTLAD SLPERYPNPK EAKLPGAWQF VSVDVPTSPE  
 SPGPNLPNVP EAGGRYISCG SSDRYATVDT AVSNQLSSRG ALGGVSSWAL RNPDETTPPI  
 SKGAGQYRSI GRMLILSRLQ EIQAELRKSX DVLFSGETER ELADLRSALY GTSVSSGETS  
 KEQPIIFGVS SMAGGAGASM ALDICRLLTG LEGNAVGLSS LFMVTPDIFS QLSPDQVAGT  
 NPNALAMFAE LAAAQMGAAE EEDARLFNAL GVSVDGDSIP VGRIFPVGIR SGENGALLGD  
 GKPDVTYRAL GRGLAALMAD EVSMDNFEQF TLGNRGGGSA DQSKYAWGAQ EAKNIPWGSY  
 GYSQLSMGRD RYAEYAAQRL ARSAVDRLK GHFDPSNDAA SDQQLQKRLE NNRPSLMGNL  
 SDVLPVNAFA GDWIFHSFNQ MIENWTQRMK AIIKSQIPAA NGQRGSEWLG DVQRAFQSSS  
 QMIDNDSRHE LYMGVADWAS ADVLQRRVVE LLRDEIAKLG VPGVSVIES LSATIQNQLI  
 GQLSDLANNR APEAVQLDDV SRSELDNSKG RIDDSDSYIQ EIVSRSTGQL HTRAVQYIAD  
 HMASVLDDFL KNFIYPLQRT IQREHHSLEK DYQLTNDVNL GISQLKTNVP ALWPDESQTT  
 VPSRFSQAAN EVFLTVDASF PEQFQAHVRS STDDINEQND YSSALQEAST RVVSGVWESK  
 SGSEKAPRDL IRLIDVWVAR DLTRDPSGSG SLRDPKQARF ELKIDTGEVL ERSRQYIRRP  
 GFSFQQFIAS SLREFITAPG LADHERRARR QQVLSKFSEA MTYALPLAQI NPQLVRALYG  
 DEVRYNFNFS RIPFAGDELG SSLEQAVRDY PNHRPADISK PLGKALVSQG EERSIDIFGS  
 YPNYAPIVFD SLLPPIEKQW RQITGDRTEF WHGRRTPLT AALPMTDLER NAMVKGWYIG  
 RLVGRVFFFA TLDTADTTPV QIYDEKSDSW INFSTPMLTP VSRFRGSLDW LPNLLASL  
 AWARAGERPV FESVEPYIQL RQLWDDAASP SLPGRTTRGE KLLHDWLF DG NRMAGNVLQI

PGTEAGVTPA ARFEAAKNFL QRQNEISQNY VPSDKLRQGR LFTTADRPFG DVKDRELAAQ  
IPVFADLAAD VFDGTQEIID ILEKCLAAGP PSAQVDFMNV ARRDVSSGPS LPGEGEF

> RXA00917 (1-1383, translated) 461 residues

QLNMQLVGRD GQPRILEGSA LVDLGFTRAD TGEFAPLAQG IDISGGELSF PLDTISQLPA  
IGTVEARTTI TTAGVDDLPG TTLSPILNTT RITITQRDMP QLPASVRFTA DEDVVTVDIP  
ITGPGKVWIA PGTQLSGVLP DGVDGIAASS TFDSPDNALV LGLDEQGTIP VELTVSDLRD  
GLVNGSIPLQ ISNAEGANET SVDLPTEGTL SVPINASTFA LAFILALVLS LLIPLLLIYI  
VRFLSAKVPS SAMSGVRIPV EFSGEALRYA GSTMPDLASQ TTATKQVVVH GDTFNVEGHK  
LKVQRFQLNP IASPAVIVQT DPSISFDGKQ KGTQAKLPLA VQGSWFLTAS GADPSKMEI  
ALTNLPLEQG QIDRMIAGIT SKAPDRAREL QKLLDDAATS QPAKVPPRAP AAQGHVEKQA  
PSFGTSGGGG FGSSNGGGFG SGSGSNDTNG GFGSSGGFGA R

> RXA00921 (1-1899, translated) 633 residues

VEGGTWSAQA TKEDLQFIAE VAPTHIETVT PFDDFISSED IDALPRRFEY RPLAGRSLIM  
QSVPAKDAT GRPGNVFTHA VFDGDLESPL ESVPISLYR SPDLLTPFRA AAVNAAELPL  
DAGEPRIGPI TDLSLSWMMI DSMFGDRRQQ FYQLQDALQA GDKATVLVLN STNEAAYWLQ  
ALSSTLTPE ARRLHFSTF ERAATLPAPD KSMEARSLFV VPGIDRELLA EHSGIVIIDP  
EIPQSQPFGP QGSWSRMTEG LFSDFGDADE LVAGLIRANE NLDNSQKELA QFGDGLARFI  
RNGRFSGTHP LRVLADQHMF GKVPDKPAPK VEPVAPAPNP NAIWARASEV VHNPRRASES  
QDWPSLRRLP DSRRRIINMS EQAINSIEKL HDSPAQDLVA YLDFLLKTEL ATSINASDPF  
FRSSFSDFFA MDNWRHIKFT EDAHPRRLREL LVDAERDARN RAPAAIVLDH IVPNFSRDRS  
LPDIEDWTRS DEAQQIFAGI IAGASVQTGR SHFMWDLIRA YFGVALIGDE DTYRAFTTTLT  
VDSVLSFVQL TLQEGRTEDI RFEKYGEQI AREDLPSILT NARAVQQYLG YIDQDIINKK  
VSRSRDVNQI FTEMARAIIR AISRNNIGKD MRS

> RXA00926 (1-363, translated) 121 residues

MDIVFLIILL AIFIVPTFLM SRRQRARMTE IQKLQDSVVP GDRIVTTAGQ HATVISTTAE  
TVDLEIAPGM ISTFEKLAIV RVLSKANEPQ MLDEPTLFDQ PEDDQPNDFG DGRTDGHPE  
R

> RXA00930 (1-753, translated) 251 residues

MSGHSHKATT KHKKAANDAK RGKEFAKLIK NIEVAARTGG GDPSANPTLD DMIKKAKKAS  
VPNDNIERAR KRSGGEEAGG ADWMNIMYEG YGPNGVAMLI ECLTDNRNRA ATEVRTAMTK  
NGGNLGGSGS VSYMFTRTGV VTVQKGDLE DDVLMVLEA GAEEVNDNGD LFEVTCAPTD  
IQAVRDALVE AGIEVEDSES DFRASVQVPL DADGARKIFK LVDALEDSDD VQNVYTNIDL  
SDEVLTELEN D

> RXA00932 (1-474, translated) 158 residues

MTPQKLHRFA ALLEMGTWTL LIIGMILKYS GVTDAVTPIA GGIHGFGFLC FAAITITVWI  
NNKWTFPQGI AGLIVSVIPW AALPFALWAD KKGLVAGGWR FSDPSEKPHT FFDKILAQLV  
RHPIRSILIL LVIIAVVFSI LLAMGPPYDP DAIANTVD

> RXA00933 (1-462, translated) 154 residues

MTLVYLLIAV VVTATVLWAY FTAQRLNRLH IRTDSARQAL QAALDRRAAL VGALLPDAAE  
ASKRAEAIPL EYSRFSQRRAR AEREISELIL KQKTLPLDSI VDAATRVELA HRFYNEAVSD  
TRDLRLRLMV RSFRLGGTAP LPEYFELLDL DLLT

> RXA00940 (1-396, translated) 132 residues

VILVLEAES MRGYQIITTI SEQTEGNWTP SPGTIYPTLS MLEDEGLISI SHEMGRKMAR  
LTEEGAQEVK KNKDAWGSIL EAYRNPESRE VRVFNIRSEF HKVREAAKAA PDDKAEQIIE  
ILRRAADDIK RL

> RXA00943 (1-507, translated) 169 residues

KPGVKWRATN ATKRGKKQLQ QALSTKSETE KFGEKASDWF NDTSDKVTEY AYTAQDFVGE  
NKDDWIKSAT ETAHKVADTV SDYAHKATSY LEENSGDWLE AAQANAKTAR KSAVKAAGKA  
HEKANFALQV AEETSGRANK KATKSYDKLQ KQADKAIDRA QKKLKGIEL

> RXA00946 (1-774, translated) 258 residues

MTHTLQATNP LDQTAWHAWH FSRNKEAISR TGATSLSATE WISATTLKDA HTFPSLPGRW  
YKRGGGVVGA HLPPAFATTG TVQLRPGELL IAEDFTLTVI ERLGQFALQV FDARNPKRFE

FHSIAAFPPS EEWRIEARFF PEPDVTNTAA ADGVIVATPT AGWVHFLKGR LDYRLRVTVQ  
KNNLRALFSD NSSTLGVYQH RFVDIPRPDA EGNTIIDFNR AYLPPKALNR KFLCPSPSLN  
NHLNLTVEAG EKWVVVAGG

> RXA00949 (1-648, translated) 216 residues  
MKVFIIGAAG GIGNRLSSLL HARGDAVSGM HRNLEQASKI TDTGATAVLG DLIHNSTEEL  
AELFRGHDAI VFSAGAHGTG QENTTLIDGA GLRKAADAAS AANVSRFILV SAFPESSRGE  
NTTENFEHYM KVKKSADVYL SHTDLDWVIV RPGVLQDEAG DGLVTAGLAI NYGNVARDNV  
AAFIDEALHQ PQLSKIIVEL TDGSTPVAEA VERLIK

> RXA00959 (1-327, translated) 109 residues  
MTVIGIILGS LFGVLAVLLI VVGALGWAAG LPGNPVVGIR VPEVRKSQEL WDMAHRVAGP  
LWVLSGVSVFV IASLVAFVAS GWMWLVALG VEAAIAFIGM GAGMAAHTG

> RXA00963 (1-438, translated) 146 residues  
MRLATIRTNG TTIAARVESE NTATTIEGFA NVGELLQESN WRELAENAAG EAVTFENKEL  
DAVVPAPKKI VCVGLNYANH IKEMGRDLPD TPTLFVKFPD ALIGPFDDVV VPEWANKALD  
WEGEMAVIIG KRARRVKQAD AAERYIA

> RXA00969 (1-147, translated) 49 residues  
IRQEERDDDA RLIVVTHSAL ESDLSTVEL LKAKPVVKAI NSVIRLERD

> RXA00971 (1-273, translated) 91 residues  
NHAEAEELDE ALSPLINRLR EMGFDPTETE EANSALHSC PFVVNDKRPS AFVCAIHAGF  
IQESLGNNR IQLELKPLNA PGTCKVHVFS E

> RXA00973 (1-603, translated) 201 residues  
MNHSDDDRMQ KWFQIRRELK KEIVKQLQKD LPAVASDIGS MVYSSDQVPL GNATLTAYGD  
IGNRVASAAT SARYNVEELL DAIENARFAI WVPNYDNSYY LSGEEGADEF QTYLIKDASR  
FLESSGNTTP ENPQYSDSKL TFASELLPFY TAFNNSTYPL LHACVQGEPT EVDLYFYELE  
QAELEKETA QLSSGSSFGS S

> RXA00978 (1-615, translated) 205 residues  
MSRSPLTKGL NQLEHLELDK SLTAWSWAED DPLYLAGENL NGSYLIVAGR VRVSRDTIDG  
KELTVDIATP GDVIGAIOTE PQPAVDSAWA IETTCALFLP ATALATVIEQ HPSFALAMIR  
MQQQRLATAR DHEINLTTTT VEQRVAIAVR TLGRKIGQRR PDGILLIQVR IRREDVAGLA  
GTTVESTSRV LARLRKEGVI DSGRE

> RXA00986 (1-342, translated) 114 residues  
MTLKDKYDTE VAVSNNQDKH QFEVSYPEDA VTAGFAAYLD KGDSRIFYHT VVGDEFEGGKG  
LASILVSEAL KATKEAGLTV VPVCPFVKGF VEKNAFEGYR KPNHEMELV KSQM

> RXA00987 (1-465, translated) 155 residues  
MPKSLTFEDS INIAAPINQV YALVSDITRT GEWSPVCEKC WWDEDEGPVV GAHFTGRNVT  
PERTWETRSE VIVAEPNRCF GWSVTDGNVK WIYSMEPLEE GTVLTESWEF TPKGQRFHFD  
KFGDKSIEEI EKRRLLAITG IPETLVAIQR ILEVE

> RXA00988 (1-423, translated) 141 residues  
MSKREESIEY GPLGKGHDPL KDPMKGIRGV MAGTLVMEAI TLGLVLTIVL RVDDGIYWTT  
FNWVYVSAVA IAHFVAAFLQ RFSWSIPMNI VLQVLALAGF FVHPAMGFAA IIFIIAWAYL  
FYLRNLIDR MKRGLLTQH S

> RXA01005 (1-846, translated) 282 residues  
MELARAHHAR ADSFTKDLK RRQAHIKHPV FDFLFEYYPV RVAHLKTWHP GIGVFLEGT  
PHATMRDFLL VDASLHHAAG VQLDLASYMQ RRGSSVRYIH ELLSATRDNH AQFDCFLGHE  
WAMVYKSNL RHDPLRLTP SETDRVVESH NIKCTHFDAY RFTTTPAIPL NLTVLTREDQ  
PRNDQCGCLH ATMDLYKWSA KLGPLVPGDL FLDAFELARD TRILDMEASP YDVRGYGFGY  
VPIETAEGKA EYVSRQRELS ERAKPIRDRL VSITKQALQA SI

> RXA01007 (1-1707, translated) 569 residues  
VFKKHRHGLG SPETKPRSIT RRFFTAATAAT LAGLAVLSGC TAQPSQAEDN TLTYLEPQFF



RTLYPPSAGF YPNGSVVNNI ADRLLYQDPE TLELKPIWAT ELPEVNEDAT EFTFNIRTDV  
 TYSDGTPLTA ENVVKNFELY GLGDQDRRLT ISEQITNYDH GEVVDVETVR FHFSEPAPGF  
 AQATSSFNAG LYADSTLEFA NEDFAPGNAQ NVIGSGPFVI TDETLGTNLT LTAREDDYDWA  
 PPSREHQGRA KLDVAVNYVLA GEESVRIGAI VAGQGDIARQ IEAPVEAHLK DAGIPIISAA  
 TNGVNNNSNF RFKNELLSDI RVRQALIHAI DREKIMRVLF SDSYPLATSV LAQNALGYKE  
 QVDAYVYDLD KATALLDEAG WTLDSGDMRR KDGELELETF NEALPQPRSR EVVTMVQEQL  
 GDLGIKVNLN PGDQAAQDAD SKDLNKIQVR HTMVGRADYD VLKSQLYSTN RNELLNMTVE  
 GETADIGDPH LEELLMIAIS SPREEDRAAA SAAAQDYITE QAYVLPLFEE PVVYGVQPYV  
 KGFSPEVIGR PSFYETYIDH SSDHSSEED

> RXA01008 (1-1941, translated) 647 residues

VSTTDKQVAI VGVGPRGISI LERIAAALNT VSRPKQGLTI HLIEDAQMGA GNVWRTDQTR  
 TLCMNTLAGA VTLFTEPGST VSAPVVEGPL QFDWIRLLRG DEDLSGIPTK AIELFRTYYP  
 AASVAEDFKE ELAATVIQSN PSRALYGAYL RWAFFDVALQL LPQWVKVEQH HARAIGIRED  
 GDRDVITLDN SEMISADSTV LAVGWQTPAP NAEELSIAAA LEENPDLVWV KPGNPVEQDA  
 SLIPAGEQVL VRGLGMGFFD IMALTIDRG GIFHEDPSTR SGLRYEASGE EPHFVISSGR  
 GYPYLPKSDY KSLPPGAKLA RLKAVIAAIN AQNRGVASIN YDAEVWPAVA RDAYEAYYET  
 LDRVSPESIR TGLDKIVEII DEVDVDKLPK ALAAHTDDVF DLHAWEFPLA GINESVEALT  
 ARIADGMARD IRHAVTAWDS PLKSALWSIS AARKPSSILG AEGRLTFESR RNRFAAVMAI  
 GQMVGSGPPL FRTRELLALV DAGLAHFAGA RPRLSVSDGQ WQISSPTTGD TPLRSKVLVD  
 AWMHNPDPVR NADPLALSLE DADRVRPFND YSVDGTAAPT GSPEVDPATR LLVHPNGNLD  
 PRVHLIGIPT YGQLADTTIS PMPGTNPLML QETDKTAVHV LKQLGLI

> RXA01011 (1-1233, translated) 411 residues

MSDLIDMLVG EDLPQLRDNR PQARDNAQKS FEALLEPVNP GTFSFGERYA VATYVAGLHQ  
 FAPAVDLYQD LLLDDAPTTL ANAVSDAIDE GLSAGPYGTY REPGLESESE PGGSVRNDA  
 KLGERLAAAF DYAHLLVFHP RDSRPEVLGR LSGAGWSADD TVTLAQLVSF LAFQLRVAYG  
 LRTLKGEDIQ VKAPRLSIPE AKWELSNNGF EISTYEELNR PEAFFVNHS LG WKPWVPPVAK  
 ADLTEEQLDS LIQPERADMP YFRLRLARPA ALKARTLTDL DIFFNTDGE LGRAERELGA  
 TVTSRYNGCV YCASVHAGRA QEESGRADDV NALLASIDSD LGSDQWNVIR DAARALSSTP  
 AAFNQGCITK LRGVGFSDLQ IVDLINSVAF FNWANRLMLS LGEPEVPKRF L

> RXA01016 (1-648, translated) 216 residues

LLPYAIVGLV ILLPSSWLPR WAVAVLGEVS LVPVAVVFGG FLLIPSMFLI GSALVRYGVV  
 DRAENAPRAM GVFFAVSAAI AIPTLIIQAR DITSSGFSIV STVAGLALGG VYISLVLLAL  
 HTPIRGALAA VFAPLGRMAL TNYIGATILM LIGGLIVDLP HSTSWTATVL LAAGILIIQE  
 LLSALWLRHY TQGPLGYLWR WVTWGSRSFP LTRSAS

> RXA01017 (1-609, translated) 203 residues

MAQKVTFWFD TTCPCFWVTS RWIKEVEQVR DIEIQWVPMS LAVLNEGRDL PEDYKERMKA  
 AWGPARVFAA VATDHADKLG DLYTAMGTRI HNDGRGPIEG SFNDVIAEAL EEVGLDAALG  
 EVADTTTEWDD ALRAFHQ TAM DEVGNDVGTP VVKLGDTAFF GPVLTRIPRG EEAGEIFDAS  
 FKLASYPHFF EIKRSRTENP QFD

> RXA01021 (1-522, translated) 174 residues

MSSSESSRSE GSQPAPSVQP ERRADSTGAP AAASKEASQQ MDAAGVLEWA RTAVEQLSER  
 RAEINALNVF PVPDADTGSN MTYTMTAALD EALKLGELGD VARITEALAV GSVRGARGNS  
 GVVLSQVLRA IAQAAADGVI DGHTIQEALS IARSLVDRAI TDPVEGTVVT VLRS

> RXA01023 (1-951, translated) 317 residues

PANGGINKTP MIIALVLSIV LVLAVLFGAR VLLGPAGQQQ IAMSGLPAPD AESAECAALL  
 EDLPGEAFGH TRAEIMDPVP PGAAAWSTSD LERVTLRCGV DMPFQYTALA NTVDVDGTTW  
 LPVSDMTPGS SLETWYSVNR FPVVAITADD ISTDSADNPV DPFSSAVDKL EKR DGQPFDA  
 PLTGLSSAGT TCTSLFDALP RQLEVGDDG TTYERIEEDR MQAAGYSDDA VAWDTPGLEP  
 IVIRCGVEPS ENYAAGAMLQ QIDDIPWFED TILASGTTSS TWYALGREID IAVSLPQAAS  
 SSLITISGFI EDTVPAE

> RXA01028 (1-624, translated) 208 residues

FYQNILASSR GSNTFLFSVP YIPATEGEET HPATDTSTIA TPTLSFDAYG NKAEMVPTQS  
 TVDKRVPSLL QYYTRTFHVR QDTQQAVFDV IGANPVLIAA AKAASISPAS ADSRRKKGLA  
 STNADPVAKH VLEIAGADVE SLRHEKDLKV TKHTGQDPAL PVVFNQTIW HNPNDVINA

LLGAIDQDAY IDMAISSYNK SWHNIIPA

> RXA01029 (1-489, translated) 163 residues  
MLQTISFKKL NLLTTLKRKG ELVIMITRHD VPYIIAPPVY AIFASLMTTP PWFYRTTYTI  
DGDFDKISWV YTITIYISLM ILIIGFYQAN MRKACPYEED PLVDIWHKVV STALFILPIV  
LSIAVYSLIT QRGFDWYVMV FILPVGLMIA YGFFKPCDCD KHR

> RXA01031 (1-666, translated) 222 residues  
MKLLQYAGGA VYVDPEDSAQ SQDLDASTAR DVIDATNTAM TTITSRPTMI VHLHKVRKVI  
EILCNPALGG EPVNIDQDET GKQVYTPTPT LVAYRFISDK EILLHYLAQA GVQGVVEFDG  
SPDMLSRWNA GRIPVLLLPQ ASAGHGLNFQ HGGHRLVWYN LPDNNEHYMQ ANARLHRIGQ  
KNPVTIHRII TADTYDANMP AILAGKANRQ QRLIDAVRRD PV

> RXA01032 (1-375, translated) 125 residues  
MSDHDAPQTP IPKGFQQID HQLDRLGTQR PETFAALRDI LLDPAYTAIV HDNRNRYGVVT  
FDTNSAFFSG SGGDNGLADV LINCWRMTD YRAEYVYVMT HKYTKESFTY IEGDVKRGDL  
IPPNN

> RXA01033 (1-336, translated) 112 residues  
MTQIAMYLAG PMTGIPEYNY PTFHAAANKF RAAGYTVLSP AEDEYESQLT APLPENAEHK  
YDHYLRLGIE KLLKADAVHM LQGWQSSAGA TLEHDIAQKL RLAIITYEPP AS

> RXA01034 (1-354, translated) 118 residues  
MDMAIIQSVE YTSVDSHERI TNVSVGVVY EGKQYVVDLN GDDIDTELDI ITLKEVIKIG  
REESARQIRR GSVDAELHRK ARLWAIIDNM AVGQRGIVPQ EIIDAYKEYC EKEGIPFE

> RXA01035 (1-606, translated) 202 residues  
VLIRIAEHQG RLHVHSPYSK AFAARARKLN GLWSPETKTW HFSPDKEQPV RRALKDVYGW  
DEFTTPELCT VQLTVTPEAV LNKHTLTIAQ VTLLSRLRRN YSVWLGDNRV IISGNFPEAA  
GSPQYPLIMG VKAQPVVIHV QEFVDAVST IPPRFNPIVI TAPPSIDIAA LRAEREQLTR  
RISEIDKKIA RAVHPTIQTE AA

> RXA01036 (1-453, translated) 151 residues  
MHTVGYKLDL DLRKLTNTDV LDLINALFGT TVTSADDEAA DFIDSDPQFA VLVELAYHDC  
ARRAAMGLSR VQQLIYDNAA KSTYYRSVAA RHRKHIRELH EQTQRDGIHF DNPLSRAVIN  
DLSMSMNRAR LNRIASWWSA GVQRYLNPTI S

> RXA01037 (1-528, translated) 176 residues  
MTTSSPLKSK NSLNGAQTF VRNCVADGPT EVKATIDARG GIEQLRDNEI SQLPDKLWFN  
SATASNDEF TTDNIRLGLL YNMALNKASA HRYELAAWY AIVSPQPSQE ASHKRIASWH  
LTQLHALVTL SRTLGVIIIPG DEIDALAQSM ENARQVG TEN WSTVTMRTYV TNRKAS

> RXA01038 (1-747, translated) 249 residues  
MTRDIFHEAA KLIHGLGWRD AFPALQRTDP APHAVPIRA FDLKAGAVIT DENRSNAYIY  
DTLVITQPYK HELPHQNTHP FEWALEQIAT LDPAFSIKLD RSVTVPEIGL YARTLHDLNT  
RHQDFLAQRN AMLLVVARRG VDPKNIADVL GLTTNQHRI LSATPADSPT DLGVNPATTM  
GDVVRFIKKR RTTMQLRGTA VRALLYHGLT PAVISRLSGM SRAGVINAAK AFPTTINHVK  
KKRKQHFHV

> RXA01039 (1-576, translated) 192 residues  
MAIKGAMPKN RVPGVAAGAF IAAAVIAGGS GVTFQAQGGG DVNTVAVVEP QDEVKNQVVT  
ETEIVTKVHD PSSSDASDAD SNTGTAEGAD SDHKEPREHD SAQEPTAPTD PTLTITGNGD  
TPVSALDAVA GPARPGTVHV IENGETLSSI SQDSGVVPVGL IIDRNKLVDI DLIYAGTPLA  
IPTEQELAAA IQ

> RXA01040 (1-903, translated) 301 residues  
MTYPVTPQPV QPAPVAEKIK ASSLKEGTQV FIKGRVNYSR IASFITGTER ENNRNDRDLHP  
IEFDYTSLLT SHPEIIYGNP QOKTNEELFL EQRIFVGKKR PEEGPKFSID NKSNNRLPQVW  
VPSTNADGTY EQLEGLEGEL DAGLNVIILI EFYKPRTOVN RGSRLNAVFL QEPIRYTTPG  
YNADKLAALG IVLNAPPKDT IQLVPNEVAA GQDQSTTDAS GLPLPGQGYA APDQPYQAQP  
QYQQATPAAA PQQYQAPQPQ YQQSAPQAQP APAPVAQFQQ ASASGTCSAS TAAVSGTTSC

R

> RXA01041 (1-153, translated) 51 residues  
VPQAPAVQAA PAVAQAPVAP VVDMTEPASP WDLPAAPSQP AQPAQGITYP A

> RXA01042 (1-1278, translated) 426 residues  
MVNPFHTLDN SPFDPAQFP AFYHNPLINH LGRRAWTIS DINKRPINVO QMLTTATYGS  
PVIHGARIED AATSLTLDE LRTQIPTAAN NAFYLDVQD GCLILDIEKT CPPEVAATLL  
TLSPTAFYTE VMSGRGYHL VMPIPENFAA FPAVHNKPSI KHPKRWFEEIL TSQWITFTRO  
PIPEHVLHHS ESANTSAVPW LNDQPLTWEN VFADLAKTVA PNLKTGAGLT ITPNALMPPD  
LSDAERIRDD EVIDSTCRLF AEHYSKTLAD FYDDASRFEF SQIGVIINLL LPTMRMHPTT  
ISLDKPINS DAIIRLLFAVA TRVITHRSKH DEERSGVPYL MYQVISCLDM REHPDNGDYR  
VVP SRHNRDQ HSNNPSAHVV HQQPQPQPSA ADSPHHYRAL PQENTVSEHS FKIYNPPATP  
PLGGEN

> RXA01043 (1-573, translated) 191 residues  
MLKFRIISTV TTGSQPTPRK SWSHPDPTLL VTMVTAPSLC SAINVWNATE RIPAQKILNV  
EEVHVLGECS DAIISTSLTK KDNPHALVPD DFDQIGDVFG YAQDNVAVFD VIVAALGGAG  
YGLLPGLVMH HIDEHTVALV FDTDSPGTGTH ILGERCVYSD IIHMTDDKSA RGWAVIAIA  
RAIILKVEQI M

> RXA01044 (1-1257, translated) 419 residues  
MSLYLDDTLS RIVELDLKDT RIVPFLAGEP GIGKTSFIYG IGERAGYKVF SISVNTLADK  
GDLTGARTLQ DPADGKWKQM FFPHATFVEA NDYALANPNE TVVILLDEIN RTDSDVTSAS  
MTISTERRVG TTDLPANVRL AVTGNLTGNV THLDSASLTR FSLYEVKPSA ETFMNIMGGR  
LNKYIIRTVLT KYPEYIFMKP TTATALITG DDDDDHTTNA KQMMDFNAVL GSDQDMVQFT  
APRTIEGLSV WLNNADDDFL RLLQEKVDG LARSMSLLQA TLESHTGDTA FTAEVLSEMT  
NDLLSSASQA PSGPIKPFVY DRLAAAPSNT VLEQEVHTLS LNDRADVLLF ALHDTVNNAA  
PSIIAHLASE GVLDELPKDR ISKIVSLGPV PTANYHALTR QDTTLTRNLG PAVLGFLS

> RXA01045 (1-1824, translated) 608 residues  
MVTFSVANHA PHTFSPFDIE PPLTGNATTD EHGYESHTSVL EKLASNHLFN PINQHPVTI  
TATENGSTVD LDAAALAQHL ALAITPDMSL ANHQGYNRDM MGLLSQLTNH VGFDRRFIVD  
QLFISQVLKA NRPAPANNV IYTVPNVIP SAKDILSTTA KMNNPLTVTA SAPITVDDIH  
TAYEVFFASL ASVFFPYTYG AVFLNNAEFV EFVDYLINEA TTLHSASLIS NNTFNRFQSM  
RNISIDNLTA EFLLRKNEAE TTDDYSFPRV LVSLLSHWK LNHDDARANN DAPTCALAPF  
SVAQWIMPET IVFINAEAHA HASSQDIEKK WKEINAALTG SIRIMSPNAI SKLQSAQHLG  
MQAQMQAMRA RKDHHNMQRK SSQENDFSKA LPSPQTIVLS VAEVLRKLTH VRQSHNPQKY  
QKKSLTRASR RHPDNPNVPG TIKSKLFYPD LHVYVDTSGS ISEESYRNSV VLLMQLATKL  
DINLYFSTFS HVLSEEVLLP TKGKTPQQLA ALISAIPKVS GGTDYHQIWD YIQINPQROE  
RMNLVLTDFG FMPNRGLNID HPSSIFYVPI LPDYGSWSMV RRDMSHFANE MVDFDPYIHS  
RLLGVHGK

> RXA01046 (1-1779, translated) 593 residues  
MIPFPGQPQQ QSAPNDETRF IDLNERHKDD EPALFRDDVI DQTLAILISK NKPALLVGP  
AGTGKSRIAE DIARRLANDD VSIPDQLVGH RILDVSAEL VAGAGVVGQL KKRILDLIKY  
ATDPSNKVII FIDEIHQIAG DQSSHSGSQA KVAQILKPYL ARGDLRVIGA TTTQEARDFD  
HDPALKRRFS RVNVDEFDRD QTLTILHAAR DGYLKHFNNA VTVSDDVLGY VYTYSQQFNP  
GNTAQPDAAAL TLFDKALASL TMEKQRLINN HVIAPSLKFP VSERHIHNTA RKLAFGSQVP  
ASINTDDARD KLETFLGQDH IIEPVLTAIK REQLGIFPRT KPLSWVFAGS SGVGKTEMAR  
ILSRAINGGD PIIINGPEYI SPESITGLIG SSDGYIGSNS KRAKPLDPLI SNPRQVIVLD  
EFEKSHPHFQ QLFMAALDTG TMAMANGTTL NFSQAI IAT TNAARDKIGR DSFGFSDSNS  
GVLGSAQAAT DPRAQERLKS LMSKDFLLNC STVSRLSPLS TALMQAPTVR FWTISTSVAV  
TPCCLATPHY AAQIPADIDS DTLDQLVETT FISDFGARPA ARTIEDHIAS LLM

> RXA01047 (1-474, translated) 158 residues  
MIDTTANSTS GTLPTLTADQ AAFITGFCEA AIFTATVTID NEPIFLDEAF FLGQETYTDI  
LMNQLRTNEA IVKDCLDFFL DNYTTMNKLI VDGLCPDWEH HGHDFLLTRD HHGAGFWDRG  
YDEYGAQLTD NAEKYSNCL NFWIEPDSDP LIINFEYH

> RXA01058 (1-321, translated) 107 residues

MRKLRTASVA LLTAGALALT ATPAMAQSTT GSSASSQVGD ALGASDYERD IWGSSKDFDD  
VTPFGSAWYG YTLAATAVAI SGLVYANLPA IEQAAAQAGI KLEIPRY

> RXA01062 (1-486, translated) 162 residues  
MNEQEREALE DAALEEAALA DELAALEAEA GVQGSVEPYD YAADLDDEDE FDDEPFQAQDE  
PRDAGPLGEL SSDNHVSEAV AEDTGTSTEE SAQEGSHEES VDNPRDFTGT ATAVRSFRPR  
LPVPNALRPG PPIRTQPAVN TDIYDGGQEN TAGATAADVG AG

> RXA01063 (1-330, translated) 110 residues  
MADEKKVHVR ATLRFDSATH QRAIYWADRK GISLSAYAE AIREKIDRDN GVHVIPNSLL  
DNRMNQIIDQ LSSFGRELAN NTTVVTSGFN TIIGMTRGDS YLSDDLDDL

> RXA01066 (1-726, translated) 242 residues  
MRRDSFRDRA LVVKTYDFGE ADRIIVLLTR DHGIVRGVAK GVRRSKSRFG SRLQLFVELD  
VQLYPGRKLS TISGADTVGY YASGIIEDFT RYSCASAILE IATHIAGLEN DPHLFEETTR  
ALKNIQDSPE PILNLDEFML RAMNHAGWAP SLFDCAACGR PGPHNAFHGP VGGAVCLYCR  
PPGSAEVPPE ALHMMWLVAN GQAARIPREH PEQOTTIHQL TTAHLQWHIE RKLP TLAVLD  
QA

> RXA01068 (1-1071, translated) 357 residues  
MPTNQPTPAQ IKRWRGYLAN EQAEAAAYRD LAKRREGEER DILLALADAE HRHAAYWVEK  
LGPDAENPPK ADVKTRLLGF LARREGSVFT LALMQSAETR SPYDDDADAS RQISADERIH  
AEVVRGLASR GRERMSGNFR AAVFGINDGL VSNVALVMGV MATGVPAQIV LITGISGLLS  
GALSMAAGEY ISVRSQTELL DASLPDPKAR EALHALDVES NELELVYRAR GMSEDEARAK  
ASQVFQRISD QKRISDNVLG STEIQSAGSA RSAATFSFLS FAIGAFLPIV PYVFGMEGLA  
GAVVSLVLVG LSLMATGATT GLLSGKPPGI RAVRQLSIGY GAALVTYVLG LLFGMIL

> RXA01069 (1-603, translated) 201 residues  
VNDLPNLPLK PFNWTWVLAT VATTVVLAGI GLYVYPSLP DPMPVHWNGS GEADNWTPKS  
VGSFSLILI GPGIILLTSL GMQALLTMQS GVITQRGGAK SANEHRQWE TYKATSMHMG  
WYMFVLNALI LVMILNEFRP NPLPGGFIIG LIGIIAATIV LLVLIGKTTT SLAKKYPMPD  
QDGKTWGIIFY NDPDDNRILV D

> RXA01071 (1-387, translated) 129 residues  
NILYALLALS VIVAIIGIIN TLALNVIERR QEIGMLRAVG VKRGQVRTMI TLESVQIAIY  
GAVIGIAIGL GLGWAFVTVM SGEGLDAVS IPWGQVGLML VGSVVGVIA ALWPAVKASR  
TPPLDAITD

> RXA01074 (1-705, translated) 235 residues  
LAEAAGLRWL AEASSAVAQV VSADAEQITT VGVETQLPTP DAAFKAGEEL ARIHLAGAPA  
FGCPPAGWAG LNYIGTQGQA CLSTPTWGVF YSQORVLPFA RRARRRNHLT EHALWVVEAA  
CDLISELPDD VPPARIHGDL WFGNLLFGTD GPVFIDPAAH GGHPETDLAM LDVFGAPYLD  
EIREGYLSIN PLPDGWRETR PMHQLHPLAV HAASHGPSYG VELLHAAKAT LKLLD

> RXA01075 (1-411, translated) 137 residues  
MDNPVNILNE QEALERLQSV SLGRVVVRRS DEMDIFFVNF IVDKGAIYIR TAEGNKLFSM  
NLNHDVLFEA DEVKDGKAWV VVRATAEIV RKLDEIATAD TLELKPWIPT LKSNFARIVP  
NEITGREFTL GEEPERY

> RXA01076 (1-1020, translated) 340 residues  
MTPAHIFSEG PINSVVLSQD EDGNFTTSYQ DTFSDPSFLG EGDVLIEVGW SSLNYKDAMA  
LKGDKGVVRT VPLIPGIDVV GTVIESADPR FGRGDEVVLN GAGLGENRHG GFTQRLKVPS  
EPLLHIPFNF SAQQVGALGT AGFTAALSVN ALVDQGIKPE DGEILVTGST GGVSIALHL  
LNKLGYYTTVA VTGRREAHAE YLTSLGASDI IDRAELSEK RPLQKGRWAG VVDSVGSHTL  
VNAIAQTKWG GIVTACGMAQ GPDLPGTVP FILRGVHLVG INSVDAPREL RRRRAWALLSE  
HLDTAVLDDM TTVIDVKDVA QAGEDLMAGK LHGRTAVRVH

> RXA01078 (1-834, translated) 278 residues  
MSNAVPHNVS FNFVPRAYRP EKPRTFGMTE IRAPYYSTFG TRHLQDVFDV AGQWVDGIKW  
AGGSFSLVPT EQVRAFSDIA HENNAYVSSG GWIETVLRG DDAVDHYLKE AKEVGFDVIE  
ISTGFIMLNT SGLQRLVEKV VKAGLKAKPE LGLQIGSGGD SGAEELAAEG KKDIGDLVDR

GKKALDAGAS IIMIESEGIT ENVTEWDTGA AASIINGLGL ENVMFEAADG PVFEWYVKNY  
GNECNLFVDH SQILQLEGLR QNIWGNKSTW GRVINPAP

> RXA01083 (1-276, translated) 92 residues  
MFPRIPAMC AVAAIPAVVL RFSELSASPV ATMLIFGTAV VAASFVLAWA AEA VRKDISG  
ALAVALLALV AVLPEYASET VVEHTYQTSA AN

> RXA01085 (1-957, translated) 319 residues  
VTDKARNRDV HNEQQRLARGE IGEMRSPMWV EVGAAILGVF VLVVMWLAWG GIGLLIQTMM  
NTGSPNDKEL FDELGVPRPY VAVEQQIGTS SAHTTCYQPL DEFGNNFGDC TRSVPKEPVW  
YADYVASVFA EHGFDAPEPI DNSVGSWLLF GHVGIIRVTF VIAVAAGVYA MSRAAMMRQL  
ETQNVAVDTT DINQHTNDAR LAIPQEIVRD LSLFPDVGAG SPVQPSSMIS HVMLSNKGLK  
KVDVTQFAQE TIIDNDTGEI VSEKGEVLYD GAGQPITKSL PMIDNEFSHA IFDKSDVPNL  
PELRRFFNPA KIEWNP GGS

> RXA01088 (1-1182, translated) 394 residues  
MGLWIDATAG VAGDMLLGAL IDAGAELEKI QQVVEAVIPG DVLLRTEEVV RQGQRGIKHL  
VDAQHEHHHH RHLSTIKELL VNADIPEQTK QDALGVFELI AIAEGKVHGI EPEKIHFEV  
GAWDSIADIV GVCEAIRQLN PGLIAASPIA LGFGRIKAAH GDIPVPVPAV AELVKGWPTQ  
TGALMESTEP VGELATPTGV ALIRHFATQD GPFPGGIINE VGIGAGTKDT EGRPNIVRAI  
LFNTSRSPND TRTLVQLEAN VDDQDPRLWP GVIEILFAAG AVDAWLTPIL MKKGRPAHRV  
SALVDSSEVE AVKTALFAAT TTFGIRSWEV EREGLDRRFE QVEVDGHTIN IKIGSRDDQV  
ISAQSEFEDI RSAVALGIS EREVVARIPQ GTTE

> RXA01091 (1-471, translated) 157 residues  
MVPNTVLIHD ETADLATQIQ RLEHIMACLR DPVSGCPWDI EQTFASIAPH TIEEGYEVAD  
AIAQEDWPEL RGELGDL LFQ TVFHAQMARE AGHFALVDVV KAISDKMVL R HPHVFGAQSN  
AKSADQQVKI GKSSRRPSAR AKRKRAF WMA SRWDCLP

> RXA01092 (1-180, translated) 60 residues  
VETAAFVAEQ LRSFGVDEIH TGI AKTGIIA LIHGREAGPV VGLRADMDAL PLTEITGVYY

> RXA01096 (1-699, translated) 233 residues  
MKPRVLSALG IGAGALV VWI SSRMNWVTIE AFDDKSGSVT QSIVGATWST EIMALALALL  
AAFAAALVLK RMGRRIIGGI SALI AVGASL SPLALLTQDP DAERARTLLT SGVASQKANS  
GTLLSDWAEI INTTTHPLAA VVAMIGCALA LVGGVVLAMR PAEDTAKSNQ YERKQARA EK  
IHTDLAQDPD SGRVMWTHSM KTLTSPRRLR NPKKPQVKAR VWHPDFFRHV CSG

> RXA01102 (1-1245, translated) 415 residues  
VAVLVAVAAA FGWSLLLPV VPLAVLNNGG SSAVAGATTG IFMAATVITQ IFTPAALRKI  
GYTPVMAFAA FMLGVPAIGY IFSVEPIPV VVSALRGIGF GALTVAESAL VAE LVPVRFL  
GKASGMLGVF IGLSQMLFLP AGLALGDQFG YNVVYVLGAV IALVAAVMCL RIPQVKAAAK  
QQPQVSEQER SVSTWKLV LV PSLAVTSLSM TFGAVSSFLP AAVIELDPGL GAALAGIILS  
ITGGSSMVFR YLSGVIADRR GVPGTTMIPA QIIGFLGVVL ITVTIFQGWS VWLLIIGAVM  
FGGAFGMVQN EALLSMFFRL PRTRVSEASA IWNIAFDSGT GIGSFLLGIV AASLAYS GAF  
GSGAVVILFG IVLTTADRII GRHRITEYNN TRARLRQVPV ARRAVQGLRN RRKDR

> RXA01103 (1-225, translated) 75 residues  
MNSSPISDMV TAAVQNEPDA GDRWFIYGLF LIAGLFFGGA WSAYKSENKI LMVAAGLIAV  
LAVAGGILWL LGEMT

> RXA01107 (1-1200, translated) 400 residues  
MDFTSVNDRN VPAPNTSIPF PVDLNRVTEA VDSLGYHYLS SEDRIIVPWQ DHRISMYFSH  
ESGQMLTILG RTRLNLD MFA INDAAARAVTE WNAERIGPTA LVHLGNDGEV ELKFR TTICI  
DEGLSTQQLR QFINLSLDTT AMAVTYILER FSELNFS DTG SPDDTNNADE LSDEQDQADL  
VEKIRGLYVP TPVEELIESL EDAEWESDM ADEDAEDDYL DDDSEIEWET DDDYFEPEEV  
DMDELLNGFL ESDIPQEV T LERIRAQLHA IGVVKTSGED DFIIAWINEV FLGFFVDNGP  
TFLVKGHWDP SMDPTRDFMK LFMMCNQWNE NSLTTKAFCH TDDKGLQVRV EFAVSVAEGL  
NDDQLQHNIA LSIHHILQAI DSISTEATGS STVEWPEKNR

> RXA01108 (1-651, translated) 217 residues

MTYPGITS DH NPYDGYTGDD GAGNKRNL PN RKKINKSVGV YAGVFAL TLA LYAIGGA AWG  
 LLRPTYTAYV EDAETASIAV ETNTSFAGYA WFAIATGVLA AAIALFVFLR TPQHRGPV ML  
 LWLGIVSIAG SVAFLVFGNV ASTMLHGSPS DYASAIGASF QVAPTITPGV AFGVAPFLSV  
 CMYWCAAFVT PEEEDQDDA GQGTSKASGS EMTGASG

> RXA01109 (1-642, translated) 214 residues  
 LSISLSSKKV AFAALMV TPL LLTACGSDSS DTEAASSSAA TTTNSSSSSA ATSAAEAETT  
 SSESESSEAT TINEEQQAQL DVLSQELSEN PITFAEAAPV ENGETASPED TAAIEALVRG  
 YTDNTLTRSS LAYTINNTCT RVLEASGADA TQLDLNTIPD IPLGGEGTGT VDSITDVVVN  
 GQEASAWVVA TAGGTTDSAT QRFFNEGQW KFC D

> RXA01119 (1-930, translated) 310 residues  
 LAGVITGFAI ILSVIGVGFL LAKLGVINDD KQRLVLNRIA FYAATPALLF NVVARSDPSA  
 LISPVIVVTF VATIVTAAVY CVISAIFFKK DIATTATGAA ASAYVNSNNI GLPVSIIYVLG  
 TGAYVAPILV MQMVIFAPMI LAALTSGDVK GSRGQKIWAA VKGSLLSPIV LASIAGLIVC  
 LLEIQLPAAV MEPTIILGGA SIPLILMSFG ASLPSTNVLA SKADRPSVLT ATAIVKIVGMP  
 AITWLIKAF GLEGDYLYAA VILAALPAAQ NVYNYAATYR KGEIVARDTV FLTTFLALLG  
 MLGIAALFGR

> RXA01121 (1-678, translated) 226 residues  
 MNPEFIHGAT EIETTNRGLR PHRLSKEIVE RYCDPQFSAM ERQPSGVRV CTTTATSVTL  
 TTYSTRVVYL DSGRPGGKID VLIDGAPTSS TPTSGGETTE VNFITGATER RLKDPQVLT V  
 DGLSEQEKVV EFWLPHNEEI EVISLKANAA LNTVEDTRPV WINYGSSISH GSVATAPTKI  
 WPAIVAQSKN YNLRNFGFGG SAMLDPF MAR LIRDT PADLI TLEIGI

> RXA01122 (1-522, translated) 174 residues  
 MPFPALLLPL IFWTGIAALS SWAVSRALPL RADNSIEIDA PVEKVWDFIE ETNRVPEWNE  
 HILYVQAPGE IEQGMKLKMK TRHPETNRLT LKFRPTIDVL RPHRELTWST KIVARWLLTV  
 TDTIELKPLE DGRTEVDQSM SFSGLVSPGV PFLASISRIK ENSNRQLKAL IEAE

> RXA01123 (1-447, translated) 149 residues  
 MRTLAAELNI KAPSLYKHVK TREDIAAHIA TKAFIQLGQS LHEHCESVED LLAEYRSMAR  
 ENPNIRLLT SSEFPRELLP EGLETWAGTP FYLVTHGDP KQALWAF AH GMAILEIDAR  
 FAGPNNGSPA DGVWEIGARA FDTQVFDQG

> RXA01127 (1-279, translated) 93 residues  
 GIGLAASGNI DATGTNPSMF EPVHGSAPDI AGQGIADPTA AILSAAMLLR HLGDEDNAVR  
 IETAIAADVA GRDNSQPIST TEVGDRIVKA LQS

> RXA01128 (1-1014, translated) 338 residues  
 MSFTFIRTF VLFGITLLVS CVPEPPDSYT KESTVLRYQV SDFNLNFVEL AVALGYLNNI  
 ELQVVGSVQG GVESIESLKK DDIDFAAVPF IGLVAGEIAT GAPIKAVAAS YGISHDSSSA  
 LLVLKDSEIH EVHDLIGKTV GINTLGALGS AMVERHLFDA GLTEPEIVSV TQRALPGEYL  
 EQRLYQGQVD AIWVTDSAKH QALETGDFRI LAEDSDLVQE LNTGCMVVSQ KLIDEHPAVV  
 GELVDGVAQA IEFERSHSPE EVREVFNYL EAHGQSDRIS SFRYWEHSGI ATRGGVLSDR  
 EFSMWSHWID RQYDVPDINP ASIYTNQFNP YRKVNPS P

> RXA01129 (1-1866, translated) 622 residues  
 MVNLSMVELE EIRDFLAGFE PFAQLPAEEL DQLPGKMSLR YFRRGEEIIP IGVPNHYMGV  
 IRSGAIDVLD QEGVLLDRRD AGRSFGYSTM GPERNSRYRM VAVEDSLVLR LGRDDFDELA  
 KRNPDLNRY SWSKRIRAA ADQLRQESS KVLRTKLGEF KIANPISCSP DTTIMDAAIK  
 MHEFGVSSLL VQIDGELKGI ITDHYMSRV VAKHLDIQLP VSEVMTVDPR CATSQGLAFE  
 AMLLMSELRI HHLPIVDDGQ ISGIVTAADI MRLLRHDPIY LTADLSRKNT VEELANTFQS  
 AAEVASRFID RGASAEVSS LLTVAADSLA RRLVLAEERK FGAPPVPYCF VVVGSGQRKE  
 MGLASDQDNA LVLDNSYNDR EHGQYFAALS EFVCQGLDRA GQVLCPGDMM ASNPEWRKTA  
 DQWISTFHSW ITAPEPDALL HAQTFDFRG IYGDTEMAKD VHQNANVMAR GARRMHAHLA  
 SLAARRDPPL GFFRGLVVER SGEYGATMDI KKGGTAGIVQ MARLYALATG SDAIGTRERL  
 IAASGHGQVS RKGAQDLLDA FDFLAAMAFQ HQARLIKVGE KPNYHIDPKT LGKMDREHLR  
 DAFSIIKDMQ SALATKYPVR NI

> RXA01131 (1-867, translated) 289 residues

MPPATLFNVL TSAGLDPHQS GDAIVVESAH FTLTFTWDEW LRAQATWVGE LSASDYVRSI  
 VAINSAHDAR ATPKMMLDAP TGLTTVLKAD KGQLQAFAVE ALPIGDGLSE AQLAGFVAAA  
 FDGAIDLTRF FHLYPERSP QERGAMLNK LVDASPSQTV TPVRVANWFM DQGVVEVPYD  
 AASGRISFEL GDTVPDVILD DPELLKIQAV VVADRDVEAT EVLHLCNRAN LDSDHSTIFM  
 RSDGDDVDVAV ATAVAVPIRAG LNDVQLSQAL HDGVVGVVVGQ VRAVINQLH

> RXA01134 (1-459, translated) 153 residues  
 SATQDTGVWK GIFALLMGRG ARDWRTGQQF DRWTFDELGC NFHQIFPTKW CKERGIDPVL  
 TESVLNRTPM GRRTEVVIGD TTPSRYLSRV QSKSLMGDEE FDQMLDTHLL SAEDLHSSNT  
 THFFASRRTN FIDMVEDAIG KAVIRDVNES DLT

> RXA01137 (1-360, translated) 120 residues  
 VRPTFVILRI SEYFGVAEAA INAAATGRLTS LSEVFIDNAA EIQDNLSSLV ALQKDLAERV  
 NVEGVNPVTP VDLLELRLGS AQLAVAATAI EVRVAGGAGY VKSSSTSRRF RVEMGACTGP

> RXA01140 (1-786, translated) 262 residues  
 MALDTRGEEM RFRPRALSGA PDTGKDPGLL LLDGQQRLLT LYHCFSGDGY VNTVDFRSKK  
 VTRKFYIDVA KAVESPVMSD EAFISVDETG KIISHFGPVI DGGITDLETA LAHGCLPVSV  
 LLDNDGTDFL FDLADMAGEG AREHAKRFQS QIVKTLVSYD IPMIRLDRET AKGGIGSIFA  
 QANSSGLQMD VFDLLTAVFA ADESVETEFS LRDDWVRVER NLRQHSALDG IGSTEFLLTAV  
 ALLVSARKGH ASGYREDILN LT

> RXA01148 (1-600, translated) 200 residues  
 MTSPVENVKK KPRPLALSPS RAGDYQQCPL LYRFRAIDRL PEPKTVAQVK GTLVHAVLEY  
 MHKLPREERE YPAMVKQLKP TWAQMCEEDA ELKELVPEDE LYDFLVDSRT LLRGYFEMEN  
 PQGFDATECE MYVDTVLPNG VPVRGFIDRV DTAPPAKSEL STTRLARNQS RSGASKRSSR  
 CCSMHWSTGA CSMKSQLSFV

> RXA01153 (1-543, translated) 181 residues  
 PFLSPIVTST HAVVAYSTAR GFGEHRVRWD YAQESPLRDT RGFDLRRYHQ APVVDPHAIG  
 VANVFVPNGA RFYVDHAHPE YSSPEVTNAW DAMVYDAAGD HILMQAVSDV ASFTSQNRVS  
 LDGHDPAL KIYKNNVDGK GASYGPHENY LYSRETDVDFV LAQALIPFFV CRQVIIGAGR  
 V

> RXA01154 (1-603, translated) 201 residues  
 EGIINTRDEP HTDADHWGRL HVIIGDANMS QTANFLKFGM TSLVLDAIEA GVDFSELKLL  
 NAVSEVAKVS HDLSLTHQLR LADGSELTAI DILRRYLDKV QPFAETPVEQ RVTALWGEVL  
 GLENDLLST SHLLDWTAKL ALIKSFEARG LSINDPKMYL IDLQYSDIDP QKSLEYHALVS  
 KGRMKTLCSA QDIADAAATS P

> RXA01155 (1-1365, translated) 455 residues  
 VESALTRRIM GIETEGYGLTF VDGDSKKLRP DEIARRMFRP IVEKYSSSNI FIPNGSRLLY  
 DVGSHPEYAT AECDNLTLQI NFEKAGDVIA DRMAVDAEES LAKEDIAGQV YLFKNVDSV  
 GNSYGCHEHY LVGRSMPLKA LGKRLMPFLI TRQLICGAGR IHHPNPLDKG ESFPLGYCIS  
 QRSDDHVEGV SSATTSRPI INTRDEPHAD SHSYRRLHVI VGDANMAEPS IALKVGSTLL  
 VLEMIEADFG LPSLELANDI ASIREISRDA TGSTLLSLKD GTTMTALQIQ QVVFHASKW  
 LEQRPEPEFS GTSNTEMARV LDLWGRMLKA IESGDFSEVD TEIDWVIKKK LIDRFIQRGN  
 LGLDDPKLAQ VDLTYHDIRP GRGLFSVLQS RGMIKRWTTD EAILAAVDTA PDTTRAHLRG  
 RILKAADTLG VPVTVDWMRH KVNRPPEQSV ELGDP

> RXA01156 (1-201, translated) 67 residues  
 VSVVNAKQTQ IMGGGGRDED NAEDSAQASG QVQINTEGVD SLLDEIDGLL ENNAEEFVRS  
 YVQKGGE

> RXA01158 (1-942, translated) 314 residues  
 MSIVEHIKEF RRRLLIALAG ILVGTIIGFI WYDFSFWQIP TLGELLRPY CSLPAESRWA  
 MSDSEECRL ATGPFDPFML RLKVAALVGM VLGSPVWLSQ LWGFITPGLM KNERRYTAIF  
 VTIADVFLVFG GAVLAYFVVA YGLEFLLTIG GDTQAAALTG DKYFGFLLAL LAIFGVSEFV  
 PLVIGMLNIV GILPYDAIKD KRRMIIMILF VFAAFMTPGQ DPFTMLVLAL SLTVLVELAL  
 QFCRFNDKRR DKKRPEWLDG DDLSASPLDT SAGGEDAPSP VETPEAVEPS RMLNPSGEAS  
 ISYKPGRAF GDVL

> RXA01159 (1-315, translated) 105 residues  
MSLGPWEIGI IVLLIIVLFG AKKLPDAARS IGRSMRIFKS EVKEMNKDGD TPEQQQQPQQ  
QIAPNQIEAP QPNFEQHYQG QQVQQPQNPQ TPDYRQNYED PNRTS

> RXA01160 (1-975, translated) 325 residues  
KSSNKISDLA RQLNLLPYFT RYKGRTVMEA ARDLGQPSSQ IMEDLNRLWM CGLPGLLPGD  
LVELDHSFKE VKIHNAQGM D KPLRLTPTEA GVLLLTLESL ESLPGIAKQE AVVSAANKLR  
AIMGEYSSTV FDSTGEDLDA EVLEIIRDAM DLHQVSEFY HSHRSDNTSL RQVSPAHIPT  
HEGETYIKAW EEAVNQWRTF RLDRIIRSIVL LDSKAVHPAR GVSVDTPDPF EFAKSSDIAT  
LLLREDAMWL GNYMAMEVDE TVEPIRSDSG FSWHTVHFPL LSRDWFVRFA IGHAHLKVT  
SPEDLRKCIK QKAFSGLSAY DHHVE

> RXA01163 (1-705, translated) 235 residues  
MGYTNLNDTR VLRAGSCDAW WRTMSPLVQQ GSEAVFRRIM GLSRRPDRKP GFDDVPFHGA  
AVRVPGLKHG TLVNAAPLKV LGARGEPNPA SSYRFEYITG DSAGRAITAT GAVLFSTRPW  
TTGPRPAIAM APSTQGVQAH CDPSHTCAIG LNAFYDKPFD AIIAYELPVI LWFLAHGLDV  
VFIDYPRDPA TGVQYYCDSI AAASLLDAV LASRQLGLSP EAPLGLWGFS QGGGA

> RXA01165 (1-573, translated) 191 residues  
MVGHVPAIA IPYFIIEILA FIGVVMWLGF GWALGLLVLF FVGGLLAGV ELRRISKSAA  
IHQASGQGS A GAIAGNIGLT AAGAILVAMP GFVSSIIGLL FIFAPTRALF RVLAKRMRS  
AIENLGVRGF EAVNGYRTQA SYGNFGAAFN GGAQQPSNEP IVIDEIEIQA WTSCLKPEDF  
TKGKDES DGE K

> RXA01166 (1-483, translated) 161 residues  
LTGVIAAIA GLAVNSSEMF EEIMSVLNER GVSDVLKNIT SCAGGSLLAS GYSSSRGWTH  
QGTPLADILD DLPLVVAEFG KQKLGRVAPE IPVLLWGSKN DDVIPIDPIR ELRDSWADKG  
TPLTWHEQA PRVPGRTGLN HFGPYFRNLE KYSGWLIDHL V

> RXA01167 (1-321, translated) 107 residues  
PRQLVKYKTA DGEIYEVFPA DDAEIPPEWM CKNGKLGILM EGEGVESKPV KPPRTHWDM  
RERRSIEELD VLLEERIEAL RKRRRNAAKL LKAQQEAEAA EKAAEEV

> RXA01169 (1-567, translated) 189 residues  
IPVFLAVFVG SDALGSISFG PFVEAFFLLI LIPLVAAAGT QQVARKWQVG RTIMAAAEAI  
MVPLMMLTLF AVIASQVEAV SGQFTDIATV VPLYVAFLMV MIPIGGGISK LGGLGFKEQR  
AIVFSGATRN SLVVLPLALA LPAGLEIAAV VVVTQTLVEL IGMVVYVRII PLIFHEKQTY  
RKLSGIGES

> RXA01170 (1-483, translated) 161 residues  
VLSLNKAKGI VAVIIVAWIV AMAGMVAAY SNNADKTFT AGALEQTVAA FDRQGLQVSA  
VALADIYDGE YVSAAILCEG TPTATLEQSL GVDLSELNLD ESGVPSGVSY LALSNQDGEV  
VYDKIDRANV DLCATPLNGA FSAYSLMPVA KVGENSEAIA A

> RXA01171 (1-693, translated) 231 residues  
MSQAAGKFKP MTSTLAESTL TSLKELEDPK ILSVNERHGD DHAVNLTKLR AVAKELKKNQ  
PLARELWATD DTAARLVALL ICRPKEFDQS ELDSMIHEAR TPKVLDWLIN YVVKKNPHWN  
DLRVLWLEDP AENVAAAGWA LNTHAVITKP DALDDSEILD TIEAQMKTA PRVQWSMNEC  
LAQIGIHRPE LRDRAIAGE RLEVLDKYPT PPNTSPFAP IWIEEMVRRK K

> RXA01173 (1-615, translated) 205 residues  
MHVSTLPNKK LRTRIFAGTA AVALSLGVAS CSNAEDAVDS ATDAANSATS AAGSAINDAT  
GTSSASTTEP SGTSGSDSGS DSAGGDTTEV ESADGSTISI PTAVVTAANA AGFSTPESVE  
EGPNGESLVT FPEGYIVNSA EGGAQALVGM IGETWIGEGG LSAAVGLPTG PEEATTNGWT  
QQFTSGVISW LDDGSGQFAA SVEPA

> RXA01174 (1-750, translated) 250 residues  
MSNMQGNDSK KSSGASRAES PLIKFRTLII VIFVILIVGL ASIAVGPVVY QLIMPGVK  
EGIQADGAAP ASTDMNGTWD VAPGSIPNTT SAGFTFAEIL PGEEKITSGS TTGVTGEVVI  
EDNSLISGLI TVNMTHITTD QEKRDINVRT KLFHTDQYPE ATFEVTDSDV LSALPDTGSI



AQVVIPGELT IHGETKAVEP TFDVLRITGDQ VIVASDIEIN RLDFGVETPE FIAAKINETG  
EINVRIVLEK

> RXA01176 (1-504, translated) 168 residues

VRYFYDTEFI EDGRTIELVS IGIVAEDGRE YYAVSTQFDS SKANAWVRAN VLDKLPNPSS  
KVKWSADTIK REVYEFLTST GTPPELWAWV GAYDHVLLAQ MWGDMAGLPR EIPRFTRELR  
QYWDMAGRPT LPELPNGNHD ALIDARHNLA KFKVCMAALP LGKRDRVS

> RXA01177 (1-1986, translated) 662 residues

MHGEKLV DGT EGNLSQFQWR DMATNQTLRK ALLVLSTIAL LLTLWPSIFN VRAIESFVFF  
FHIDTDVYRA GANAFLHGEN LYTDQYQVGS IQLPFTYPPPI SAALFVPLAI LASSVAGIAL  
TLISTVLLWW SVAIVLRRVL KGLTDADSRF VSYLILPMAL STEPVFQTLQ FGQVNIILMA  
LVLMDFTFKK PWLPRGFWIG LAASIKLTPA VFGLYFLVKK DWKGAGVAIA SGVGFSALAF  
ILSPSSSKIY WTETLNDPSR IGNLSYIANQ SVRGTLSRMM HEQQDLVEKL WLVAVVLCLA  
AVAVAMWRV RAGNPYGAVM LNSLIAL LCS PVSWSHHWVW LIPIAIGLGA SAWNQRRAP  
GIAATAGVLA LLTTIPMFIT TFWNMPYDSE SYPFWPLILQ PSGNAYVVVV IAILIVAIVN  
PTVLGSGNKA VSGQAEKKSS PALLVLAIA IFYLFANIWF KGNNQNKALI QYPLQTMGR  
GLTDFGELIF EFAASSNQLV SLWIIGALNA IALAITLWFL LQRFAGKKSS WLIYLSSTVAV  
ALMMFSVQDA LQFGSLTLVA LALITVDVLS VREIGRRGLL TGLAAALFGW PILIVIGFLI  
HRRYAATITT TVTAAVLWIL GILLNPDAFN LNLLRQWFNG RDGRDNLSFY AFLARWVSES  
PA

> RXA01178 (1-450, translated) 150 residues

MMFVWFIVAL GLGAWAIHRT WSHGFKDLSV ALSIALPTLV LPIVELHHLV LLLPLIAVLL  
RQGRVAISYL IGFIYLVSWT PQHLSYSTVF PLNDPAPEGY VAHFGWYLLV EPMVAVAPAI  
ILGAFIACAA TTPKTSQLVQ VDKSSAENTK

> RXA01184 (1-1473, translated) 491 residues

MGLFGFGIFL ALGLGQDHMG ILAGVVSVMG VAYCIAAFMW PSGEGQLDPT AFSTMPLSAK  
QLLPGFAIGT LLQSRGIIAV ICTVATSIIA AVFLPVGSWP MIVFMMAVSL VTTLLLGELL  
GALTSGSSSR VSNDRRTVLT SVVFMVFVVG YNMLIGADGM SRIDAIGAYT KWTFPGAGAG  
AIEAFVGLW GEAGLLTLLA FVYVAAGFWL WSQLINRALT APLDQGGQGO SAKDSAGEGK  
KVLFLPGIPW SVGGAI FSR LRYMFRDSRL LGSMIVFPLL GVLFIFQSFT VEFFMIYVGL  
IMMAVFAGSV ATNDFGYDGP SLWLNIVAGV KARTLLMPRH WASMLPGSVS IVVFMIITIV  
LAENKTTAVL ICFIGLGIFI SSAAVALLVT TFNPYPTSKP GTSPWGD RSG YSGAAFVGAF  
AALLGWIPT IPTIALGIFG LVTQMMWMI LAEVLAILLP VAVYIGVAKV CIRKVEKDL P  
EIFDKVKTHV K

> RXA01186 (1-1098, translated) 366 residues

MATPVPLVFN APKRGMPPTH FADLNDEARI EALKELGLPK FRLNQIARHY YGRLEADPLT  
MTDLPEGARQ EVKDALFPTL MSPLRVVETD DDTTQKTLWK LHDGTLLESV LMRYSRSTL  
CISSQAGCGM ACPFCATGQG GLDRNLSIGE IVDQVRNAAA TMQSEGGRLS NIVFMGMGEP  
LANYKRVSVA VRQITQPSPA GFGISQSVT VSTVGLAPAI RKLADEEMSV TLAVSLHTPD  
DELRTLV PV NNRWPVAEVL DAARYYADKS GRRVSIEYAL IRDVNDQDWR ADMLGEKLHK  
ALGSRVHVNL IPLNPTPGSK WDAAPKARQD EFVRRVIAKG VPCTVRDTKG QEIAAACGQL  
AAEESA

> RXA01187 (1-459, translated) 153 residues

VDPFETNPND LPTGLDPAYE GNSLNPLGG KNIPDEPEVT ANTPAVQEEP AYSEPETA VE  
SKRQAKQNTK KSEPVVAPKQ TLAGGTWVAL IVGALLLILL LVFIMQNQTT VELNLFATWF  
QFPAGIGFLL AAITGALIMA LGGGV RMFEY RRS

> RXA01195 (1-447, translated) 149 residues

VIVAVSAVLL AAWRFFTLRS RGTTVILREL PQSGVHGWRH GSFYNGNDL EYFKLRSLSP  
MADLILNRLS VTLLDRRDP ADEAVFMSQG LKILHIKSKN DQIELALDAH GEMAF TAWLE  
AAPDARAEHS LNPRDFNRFR ASKDTRKNR

> RXA01196 (1-690, translated) 230 residues

MRLVIARCSV DYVGRLEAHL PSADRLLMVK ADGSVSIHAD DRAYKPLNWM TPPCSLVETP  
ITDEGEATG ESLWVVENKK GEQLRITVEE IHSEQNFDLG QDPGLVKDGV EDHLQELLAE  
HITTLGDGYT LIRREYPTAI GPVDILCRNS DGETVAVEIK RRGIDGVEQ LTRYLELLNR

DELLKPVHGV FAAQEIKPQA KTLAEDRGIK CVTLDYQALR GIESNELTLF

> RXA01197 (1-453, translated) 151 residues  
MSTEQSLNIP HEYVICLDHV GIAVPDLEEA IEFYRSAFGW VNHHQEINEE QGISEAMIGP  
KDIKSTEGMI QLIAPLNEDS TIAKFLEKKG PGIQQMCLRT NNIDALSEHL RRQGVRLLYP  
EPKNGTGGAR INFLHPKDAG GVLEITQPQ S

> RXA01198 (1-303, translated) 101 residues  
MIVAFSVAPT VTDNPDAEMA DAVTEAIRIV RASGLPNETN AMFTLIEGEW DEVMAVIKEA  
TEAISRVSPR TSLVIKADIR PGHTGQLTRK VEAVERLAR D

> RXA01206 (1-261, translated) 87 residues  
VSAENTENTD SPFEISEFDD HRRPLQRAK FGSIALLIVFT LISLAIWGAT RGVPGVSAVV  
IGAAGVAGFV LLTALSVLFT TNSNVTT

> RXA01207 (1-648, translated) 216 residues  
VSRIYDCADQ DSRAAGLKAA VDAVKAGQLV VLPTDTLYGL GCDAFNNEAV ANLLATKHRG  
PDMPVPVLVG SWDTIQGLVH SYSAQAKALV EAFWPGGLSI IVPQAPSLPW NLGDTRGTVM  
LRMPLHPVAI ELLRQTGPMA VSSANISGHT PPTTVLEARQ QLNQNVAVYL DGGEALATP  
STIVDISGPA PKILREGAIS AERVGEVLGV SAESLR

> RXA01210 (1-693, translated) 231 residues  
VFPVGIPLLL FLIGNGGAAE SANSFDYFVM YTLLFVQFYT VLSMATTRRD ERVLKRLRTG  
EARDIDIIGA ICFPGALLTL IFTVVIPLL MVLGAPAPIN LVPIVFAVLI GLLCSALAL  
MTSGFTRNAE AAQMTSMPVF MLAMGGLSI RFVFGDSIVA DILAYTPFAA ISDLVQIGWA  
GATFADSVGG VEAANFAGIF QDMLIPLGIL AAWTAAVWA ANRYMRWDSY R

> RXA01213 (1-1227, translated) 409 residues  
MTNPTEERNA RRLLIWANGLQ NIGDQIVAAK TVLPWLLQAA GAPGFLALL VPIREAGSML  
PQAAITGWVL RQTSRSKVWV IGSNGQFVSA LGIGVAALFL RGWALGITVI VLLAALSFLR  
SMCSIASKDV QGKVISKGR GLVTGRATVI GGVMGLVAGL AIAIFLGSHS PTRVLAAVVI  
ASSFSWLFAS IVFARIEYAK PATPKNAPSA NPWVRRCIAA LKDDKAFRRF VLVRSMMLVT  
ALSTAFIVAL AESGNSIDS LGFFLIASGL ASMVGGRISG IWSDHSSKNV MAGGALFGSI  
VLILVVLSSA FAPAQINTLV FPLSFFLITL AHTAIRVARK TYVMDMAEGD QRTRYVADAN  
TLMGVVLLIV GALS GFIAIF GNEAALLFLA AIGLLGTISA RGLKEVSAG

> RXA01218 (1-429, translated) 143 residues  
MARLQHDMIF INLPVSDLAA SKRFYAGLGF KENTVFSDEH TASFEVSDAI VVMLLETARF  
SDFTKRPIVE KNGSREVLNC LSVCTEDAD EFVRRAQEFG GTITRELAAE GPMYGGAFDD  
PDGHGWELMY FDPEALAQMM PEG

> RXA01229 (1-693, translated) 231 residues  
MIISTNTAHP LHEPHVPSHH NRMNTRLRAGV LGANDGIVSI AALLLGVIAT GASDTVVFGA  
GLASTIAGAV SMALGEYVSV SSQRDTERVL IAKEAKELAE DPTAEHVELS EILHSYGISP  
ETANQAATEI GQGDALGAHL QLELGIDNEQ LTSPLAAAFS SAVAFLLGAL LPMVSVFIAP  
AGWDAGVVFV VTLLVLAVTG FISAQISGTS PMRACGRLVI GGALGLALTY G

> RXA01231 (1-504, translated) 168 residues  
MLGYTFVIFI LAPFLILTGI AMAPAIRSRF PWYVKLFGGH QGARS LHFIA MVLMTGFVIM  
HXRPGFLVHG DYNMVHMVFG DMNTDRAAQA YIIVITTIVX GGVXLXXAQY IXXWXTXXAX  
XGXPPXSXEX XRKIFXXPAA SPDEQAXXHL HGQGH LAVPL DQWPAADR

> RXA01234 (1-384, translated) 128 residues  
MWKFMKTQYV CTTYFIAAPE DEDEAYQTYR SRMNSLAALN GADVVSADG LRMEVDQDIW  
GSLAEQYQIE QEGLYPTGHN LYFVVTVVNL DDSDEVYDRT MEHLIMDDPY VRVDRFPSTV  
HASTQIML

> RXA01237 (1-441, translated) 147 residues  
MNVQFESDMA VQPGNTMEAT VTDIRDAKRK TTQLDSVTPF KKNCPSTLL DTISDKWAVL  
ILLSMENGPO RNGEIKDQVQ GITPKMLTQR LGVLVEDGLV TRTSHAVVPP RVDYQLTDLG  
ASVIEPCRAM YSWAVENIKQ VEAYRSA

> RXA01246 (1-639, translated) 213 residues  
 MKRTITIAAL ALTSTLVLSA CADNTEGENT DTTTIATTTSA PDDTETTGTAT TDPETETGAA  
 GEVSAEHNDA DIMFAQMMIP HHQQAVEMSE ILLAKDDIPA EVIEFTQGVI DAQGPEIDRM  
 NTMLETWEED PVTGDMGEMD HGGMSGMMSE EDMTALEDAQ GTEAARLYLE QMTAHHEGAV  
 DMARDEVTDG QNPQAIALAE QVIEDQAEI AEI

> RXA01249 (1-300, translated) 100 residues  
 VSQDTFLTTH GLAAMDAVEI IDHLDRQKVT ERPTDLIASV RADELLLSSD DQEVVVDLPD  
 NQTYVSIAPY LNSTHDCFYH SLTTCGLDLD NEDIHVMITD

> RXA01251 (1-309, translated) 103 residues  
 MTQPDMSQIL AQAQQMQAQL QAAQQEILAT TVVGNAGNGL VTVTMAGNGE VFAVTVDPKV  
 VDPEDVETLQ DLLLGAFKDA HNKVANVAEE KMGPLSQGMG GLF

> RXA01263 (1-912, translated) 304 residues  
 LTPYDPTAVN KESEKEAAKN LFGAEALTVD PDAGEVVDRV DNFYPTTAKA KRDYPSNYAA  
 GCHQEVNETS PESCVYGDKN SDFSVALVGD SHAGHWLPAL EPIAEAQGWR LEVYTKSQCP  
 LISTAIKLGE TFYAECYEWN EKLLAKLTGP SAPNHVIVSS QRYASANPLI DSVATGTVSE  
 GYEMAWNLSL DAGVSISVLL DTPRPQIDIP ECVASNRDNL SECSVHRSVA LGTEAHPQQK  
 TAAQNIDVPV LDLSNWICPE EYCSAVIGNV LVYRDSHHLT ATYARSLSSA LWNELVASNG  
 EPFK

> RXA01266 (1-1035, translated) 345 residues  
 MPKVSVVTFG YNRCEHLERT IESILNQYYS DFELIVFDDA STDGTASRLL ELKEKYDDPR  
 FRFIIHEENK GFVKGLSEAI SGAKGQYIAV QGSGDVSLPR RLELQVEFLD ANPSVGAVGG  
 AIYNIQEDTG TRNPQRFEPK IATFDDLLTS NPFTHGEMY RLDLYKSIGG YRSGFTFAQD  
 RDLWLRLMAK ADLGIIPDFL YHRYTLDDGV SFVPDKTIRQ RCFSEAAVRL ALMPEEEGAL  
 AYSRLEAEGP TAVVPIADRA VQKFVPKAAI RLCLYGAPET GLHMARDYIQ NPLRRTIVVV  
 LISIYSSRLI KPLQDILYKS IFKGVSSISK IKSSLVKFTR RIQK

> RXA01267 (1-1314, translated) 438 residues  
 MYAEINGGFI PEGTVRVSGA KNSATRLAA ALLTDEVVHL GNFPKLVVDV EHKIRFIEEL  
 GGKVHVDHDE QILVVDKDL AAREMTTDEL NIPRTTYLL AAAQIGRGEI ARVPFPGGCA  
 IGGGPAGGRG YDLHLMVWEQ LGCKILEKDD HIEVTAPQGF IGGVIDFPIS TVGGTENALL  
 CASIASGDTH IANAYITPEI TDLIELLRM GAEITVYGTG RIHVKGAGL LQGAJMDVMP  
 DRIEALTWIV YGIISGGRT VEGVPFSSME VPFIHLEKAG VDLFRNSSSV YITPECLPSG  
 SVQPFELACG THPGVISDMQ ALFVLLGLKG AGTSRVYDYR YPERIAFVEE LTNLVSGDKL  
 SAEAGKITI QGDATFRPGYA NSTDLRGSM VVLAALCADG KSTINNVHMA LRGYNELDKK  
 LRLLGADLTI REGEVPSP

> RXA01268 (1-840, translated) 280 residues  
 VAARIARVPR IVYVAHGLRS ETVLGLKKKI LVFLEYLTQL FAHQTLAVSH SLKKAIEDAH  
 PRFKGRVQVL GYGSMNGVEL DRFRVPSLEE KLSARNALNL PSKSVIVGFV GRINKDKGGD  
 LLAALTKHEA FTRLRLHLI IGELEDDDL EAFIKLVNEG QVTITGWIDF PEEPLAAVDV  
 LLHPTQREGL GMSLLEAQAM GVPVLTNAV GTVDAVTSGE GGFFADDDSV ESWVSKIDLL  
 VSDPKLRDRM GRAGRQFVSA RFNRDDVAAR FSHFVEQFKK

> RXA01271 (1-1812, translated) 604 residues  
 MAISIGKAGQ NLKGSVPIGK VLFLIDALAW ISALFIGVVL RYEFNLSSIN WSAFAWFGLA  
 AVILQFVLGL SLHLRYKGLR HLFGSFEDTL NVSISVIVVG VVLWIASLFV GQRWKISRGV  
 MLLVIPLALV FVLAVRYLAR MRVERFRPA ADSTPALILG GGYIGTNLIQ WMSDPKSPF  
 RPYGVVIDNP ELACQVRGV PVLGKFDDIA QVASDTGAEL LIVAIGDADS ALLRRVQDTA  
 NKNGLSVKVM PAIDRVVSKG VRGNDLRDLS IEDLLGRQPV ETNVSEITGY LTGKRVLVGT  
 AGSGISQVLC TEIAKYGPAE LMMLDRDETG LQQVLINAV NGLDLDNAV LADIREADAM  
 KEIFLKRKPE VVFHAAALKH LPMLEQYPDE GWKTNVLGTL NVLAAAEAVG VETFNISTD  
 KANPTSVLG HSKRVAEKL AWYQNSTSK YLSVRFGNVI GSRGSMPTF TRLIMEDKPL  
 TVTHPDVTRF FMTIPEACQL VLQAGGIGRS GEVLILDMGE PVSILEIAQR MIAMSGKDID  
 IVFTGLREGE KMHEELVGDG ETEDRPFHSK ISHAHAESLA PNNLDRDRFM QRAGKLASTD  
 SEII

> RXA01273 (1-1434, translated) 478 residues

MELREYATIL MKNWVLIVIA SILGIAAGAG FSLLATPEYQ SRTQLYVSVR SGAGTTSDMV  
QGANFSRQIV NSYVDVIKTG VVLEPVVDEL GLELTANQLS SHISAASPAD TALINITASS  
PSPQQAEEIA NAVGESFKNV IQTELEPDSG DGMSPINLTT TQVALEPSSP VSPNVMNNIL  
LGLLVGLAIG VGIAVLRAAL DTRIHSRLDI EEVTDKPLL GIIADSEVEK HPLIIKKPH  
SPIAESFRAL RTNLQFLNVG GSSSVFVISS ANPGEKSTT SVNLAALAE AGSRVALIEA  
DLRLPRVSKY LGVEGNAGLT DILIGKAEVN DVLQRWGRTO LYLLPAGRIP PNPSELLGSA  
EMDKVIAELE ESFDYVIIDA PPALAVTDAA VIGHGKAGIL IAVSAGSTKK PELEATLSTL  
ENADANVVGW VATMLPPKSV AGYGYGNYGY GDTSKINAPK PDNTELTITD ASKANNEQ

> RXA01275 (1-918, translated) 306 residues

MEKIRSPAVQ SDALQVFKSA LAATVTWWIS VNLLNSQLPF LAPWVALMTM QFTVYHTFIS  
GIQTAIASVI GVGLSFVIGT YLDVSVWTFG LAMVIGLIGA RVPKLRAEGI GIATTSIFLL  
ASGFDDQQPL LYDRILEILL GVAVAIAINL IIFPPLRDQE ANMVVGNLDR RMGEVLQKMA  
DELAEKWNID NADEWLEEIN SINNDLEKAW HSVRFVRESR RVNPRKIRIQ EGRPQPTETS  
YESNLTSIDE GIAHLRHLAR TLRDTPIDS DWGSSIPATV GIPYARCSF ARRSESGNRS  
YPRPAL

> RXA01276 (1-546, translated) 182 residues

MRKTLITMLA TTAIAFSAIS PVQAQTVDTD TDASVSSELS SGTSSGSSSED SEDSDISNRD  
IIFGIAAIAA VGGLIAGGVH WAVQQRMIPI PLPGIIPNPP ALAPQAPAPA PAPAPAPQAV  
APQVVAPQVV APAPAPVQTN RTYKNCTEVW NVLGRSIRQS DPGYGTHLDR DRDGIGCESR  
PR

> RXA01281 (1-762, translated) 254 residues

VGLSRSHYQL AAENTKSLVR MVPMTVPQGN EPAKKLATDL NRNQVVDLS AAVSRGQLTL  
EEFEDRSSKA WNARHLDTLV ELISDVNDNP YTLLGQQFPG ASYAPAAET TPPAMPNVSD  
PVNIVNRIT GNPNGSKMSV SFMGGTVRKG GWHVPNVHTS FAMMGGNQID LRDAFLES DR  
IQINAYTFMG GIEIIVPEGV FVICDGMGIF GGFEQSVDKA GALNPARLPS NAPT VHIKGL  
AFMGGVSVVT KKNL

> RXA01282 (1-780, translated) 260 residues

MDELLKQEVK DFLTTRRARI TPAAAGLETQ PWSDRRVPGL RREEVADLAG ISLEYIRFE  
RGNLKGASPE ILQSLAKALQ LSPIEREHLH NLAYRADHPR NLPSAETPTA PLQDIVDAVT  
DKPAWIRNEQ MDILATNRLC AELYAPIFKD LPDRPNTARH CFIGATASEF WVDRDQFSAE  
FAAKLRLEYA RRPSVPGLKE LIDELHQKSS VFRDNWASAD VLSFGSGIKR FRHPTLGERV  
YEYETFNLS APGYVLSIYF

> RXA01294 (1-666, translated) 222 residues

MSTIPDVFTS EVFPEISGTK EFRGLTYMFF DQFTLPTAEQ LEQAKAAGWS LITWGWNSD  
TDLEDVELED ITNEGDSLKP LTDEFVSSL STFDLNSQGL PNDDREPQPI EEADSLDDIF  
SEEEGWGLMA INCPNWQVPA ACEWLGCNV GEPPFEMSHVL RVWQNSWGV ALAFGGGEEDD  
ADLLLRVPEE SEELLKALAV ASDQVTTYKH EDLGLASLW FD

> RXA01295 (1-975, translated) 325 residues

MTENLDNALL SMRMKPVQMA LMTLGYNHDM AVTDSGMELI VRRPGLTVNF NLDSVTLCIV  
ADFMWHGCV AKKQAEYLRA ANEFNRPTRD LQVVLDEADS KNMTVRGREF FFSSVGATWE  
QSAEFVHYCM NDVATTFVSW CEQIWPKFSP ERVEFNATPP DVDFEFSQD LKEGNPFGLI  
DEPTPLVSLD RIYQQYELMG ADQLKMGEDF VEYLHMGQRV SAWLTDGNNG SDRKTLAVSS  
GTGVKIKKK QLQELLGLCN LYSKEHVLVT VFAEEIENGA RWGIFAEARI DLPAGLNDHQ  
LWVFLANSSK WTAEVCLTVA HRLQN

> RXA01296 (1-1083, translated) 361 residues

MSIEQAITSL SARVELKPI IETEEATKTA LIIPFISNVL GYDVTDPREV IPEYTADVGV  
KKGEKVDFAI KTGDDFHFLI ECKKVGSPS LDHANQLVRY FNVTDFEAI LTNGEIIYQFY  
GQLDAANRMD AKPFMTLDLN NIDARQFPHL EMCTRKHFNP QALANAEEEL KYIAELKKVI  
ANQFQEPDVE IVKMLAATVT TKRMATQNL EFTRLVNTAS SQFLKDEVNR RLRSQVFED  
PVQTQGADE TPAEDEAVIE EVVSEIVTTE EEIHGHSIVR AICCSEVSAQ EITMRDAKSY  
CAILFQDNRR KPIARFYFDR KIPRIGIFNA EGEQEHFDE SIEDIYNHAD LLHSRVVALN

A

> RXA01301 (1-405, translated) 135 residues  
FLRLEGIEPK GPARAYYFGD VSOTVDILIG FVPSPAQAES LRRGALSQSG GDIDDVVLHH  
FRDMKTMHSR HSGPFDGVER VWDEILDEVE DLGCTLPSSS IGWEEYIEGP ATADTCQDLA  
SEVYVQVCQA PVKSA

> RXA01304 (1-486, translated) 162 residues  
MPAQNKNLPG SVIVVSDRIK SGERIDKAGP VAVDLLQESG VEISTFTVVE EGFEPVHQEL  
VKALARRRDRV IITIGGTGVG PRNRTPEATE PHIDTLLPGL MTQILFSGLS NTAQAGLSRG  
LVGLSARDST AALIVNAPSS SGGVRDALGV VCPLEGSIFE-RL

> RXA01306 (1-1008, translated) 336 residues  
MTEWYVVLPA TILLIALSAF FVIIEFALLA ARNRLEETV ETSRSSRAAL RSLNELTLML  
AGAQLGITMV TFALGAIKTP WVHYALMPLF EWARIPLVMA DVIAFILSLF IVTFLHLVIG  
EMAPKSWAIA HPETALRTIA IPARGFINLF RPLLQWINKM ANDLVRKVGE TPVDRAAAGG  
YDSDLTHALI EHSRETGALD QQSAAQISGI IKLDKITVGQ TLTASPFTHS ASATVAEVQA  
AAQRSGSLRV LIDAPSHLFP HVIHVRDTLG ASPDEKASKW SRPILTVAET DTLHQALEYM  
REHNEQISAV LSADGKTVLG VITWDHILKY LWPASV

> RXA01310 (1-327, translated) 109 residues  
MSSAKKKPAP ERMHYIKGYV PVAYSSPHSS LERSATWLGM GFLLTALAGV GAVLFAVGAN  
SVGQQQEHVW LYSIIGVVFA VVCTVLGTVL IIKGRAPYNR YVKETGRTQ

> RXA01313 (1-945, translated) 315 residues  
ALRLISQLLA PSAALNFKSE RNAVDVAKHM LASQAQQRGS ALVALDTRSE NADAATALRK  
SLLIRSWTQR GTHQILAAED VRWMTLLCSP RILAASAKRR SSLSLDSAAV QRARDALTTA  
AEKSPVSRTQ AYEIFRSVDV DPGEHRGQHL LRHFGGEGDI VQGPPIGTED SFVLLDSICP  
LSLALNGDEA LITEMTRRYFH SRGAATVKDL VWWTGLTVRD VKKGIAAVSS DGLIHSVEGP  
NGEEMWIPTW ADDVTDAEVS DALALELTLP AFDEYLLSYT DRSHVMDPEH LFSIGPGKNG  
VFKPFKVVQG EALPV

> RXA01315 (1-651, translated) 217 residues  
VDIEEQPSLR EIKRQMTLEA IEDNATRLIL ERGFDNVTIE DICAEGISK RTFFNYVESK  
ESVAIGHTAK LPTDEEREAF LATRHENIID TVFDLVINLF GNHDNSKSGV AGDIMRRRKE  
IRVKHPELAV QHFARFHQAR EGLEHLIVEY FEKWPGSQHL DEPADREAIA IVGLLISVML  
QGSREWHMPP QGTQADFQAC CRKAIKNTFL LRGGFSE

> RXA01316 (1-303, translated) 101 residues  
MDISMLNVIT SYTIWAIKAI IGICGFVGAF LAATTREDAF EVADRQKKMV WVAILIASGF  
VLTALGPSIP ILPWVAIIMI GLYWFDVRPQ IKSILEGAGG W

> RXA01317 (1-420, translated) 140 residues  
MSDAKDDSL SKWSNAASEL SGAVSGVAKK LREELSEKET FSKLKTEASE AVDQAKSGSY  
LDAGKEFARD AGSIIKDAK TVKGAVSDSD KNDVKSAFGN AVEASRDKFD DTLEKRKAKK  
DSPEPGDDDI IDGEVIPPQN

> RXA01318 (1-1302, translated) 434 residues  
MGKHEVAQQT VPGPSPEMEA QRRKELRKHK AIATGLLIFA AAVYFLCRFV ETRPGETAAW  
VGFVRAAAEA GMIGGLADWF AVTALFRHPL WLPIPHTAII PRKKDQLGEA LSGFVGDNLF  
NAQLITEKVS QARIPERAGE WLAQPENGEK VSREVGKLTA NIVRAIDPSD AEAVIKSAVI  
DKLAEPTWGP PAGRLLEQLL AEGKAEPVVQ ELAQWLHKKA LGSEPLIDRL LNERRPIWAP  
KFTAQLVSGK VYDEVIKFTE AVAADPNHEA RKSLRRFLNK LAQDLQHDPG MIIKVEEIKR  
DIMSGAIAQ AAPTIVASAS ESLIESAEDE SSILRRKIAE AATSWGQRLD VDDSLRHSID  
TRITGAAAFI ADNYAPEVTG IISSETIERWD AEEASEKIEL MVGKDLQYIR LNQTIVGALA  
GLAIYAISHI LFGE

> RXA01322 (1-438, translated) 146 residues  
MKLAPRMRMR SPKTFALAS LALVIGLGQV PIAQAQTEYR TASDGSINWG FROSFRNYIQ  
TGVAKGSITL GDGASDNGN FAFTPRNTGT TVTSDSQGTV EFNGSVHFLG HQAEDKWILD  
TTMSDIKMVF NGSSAQLVVD LVAREF

> RXA01326 (1-294, translated) 98 residues

LRERLLQNNQ GEVIDNENND WILHPVRDDS DRKRLVRTAN DIIRETESAR EWDNFPENAI  
AIANDGTGDL IILLPDDDAF YIWSHEDEPL IETELEDA

> RXA01330 (1-456, translated) 152 residues  
MWKDLTEPLP EACAEGLEIR VVKSPEELAD YAAVLSANWN PPAETVQRFY TEAAEYALRK  
NSPALYLVGY AGNRAVCSAE AFIHASVVGI YNISTLEHKK RRGYGGAITL ATLHTARNAG  
CDTAVLQASE DGEPPVYRKLK FTDCGRFTEY SL

> RXA01331 (1-576, translated) 192 residues  
MNIMGDPADG NGWMYAYNGL HVARHYAWP AAGEGSATAM LFWWPQLLGV GTDENPDQVN  
DVDQAARDLN VGYFMISPTW FWDQIPNFR QIDLLWQTPG VTPVCKKGDS VIFAVNDMFT  
DAELDQMRAP GNSPEPLPEL PTLGELGLAE TEDEVDTQYY HRPTVPAGVN SEMPASATLY  
APDPTKPHTV PN

> RXA01333 (1-1005, translated) 335 residues  
MPGGCSGNIV RMLPKSRIFS AILLGIGVAL VVWGLVAPRF VHADGRLPLD LEATTYVLHD  
SDAQTINSND PLAGVVTPV TRQLHFEVMD PASADDATIR IGDSMLRGNP DTQGFQERL  
LSATVSSFRI DRTSGEVLSD IALTNQLASP TVQYSVDGIW LKFPTDAQET TYNVVDVPLR  
SALPADFVES TEIDGREVLH YRQVIDNVNV AEYFADANNT TTLTKEDGGT TTGYFYHNV  
RDFWVDQRTG LVVDLAENID DFYGDRSGQK YEQKLLFDAS LDDAAVSKLV AQAESIPDGD  
VSKIANTVGI VIGAVLALVG LAGCFGAFGK KRREA

> RXA01336 (1-603, translated) 201 residues  
MEPTVKASAR HTIHVTADTW RIRLSASAHS HPNDAYARRA TAISAIGSVL IDVPLQGERI  
SESTAYDGQI NADWNAEVTG TDVNIARDII SRLAAVPDVQ VDGPLWSLSD SLAAEAAVEA  
LQGAADTARN TATAIAESLG GQLGALLYAT TDTHSSTPIP ARAEMMAKA SIPRPTLDLE  
LAPSDIEVTK EIAVTFEFLA G

> RXA01337 (1-1413, translated) 471 residues  
VTFRGNTGA KHAVVVGSGP NGLTTAAVLA KAGWQVDVYE AAPTGGGAAR SESVLGEGTI  
SDLGAAGHPF GVASPAFHYL GLEDHGLEWA YSPFAMAHPL DYGRAGLLET SLPETAKKLG  
PDARRWKNLH QGLTKNIDKH LANLLGPVLK WPAHPIRMAK FGPFALLPAK RLASAAFETE  
EARSFIGSA MHSVTPPHKP MTASLGLLFG ALGMSRGWPV AVGGSGRIVD ALVNVINHHG  
GTIHCDSDID SLSQFRDIDA IILNQTPSQV LKLKGTDLNA GLPQRMSTWK HGPSSYKVDY  
LLDEPIPSWN PQVGQATTWH VGGSSSEIAF AEAEVAAGRM PERPFIILCQ QQVADPSRAR  
EGRHVWYAY HVPRGFVDKR AALLITAQIE RFAPGFRDRI VHSVDTNAED LEAWNPNLVG  
GDITAGSALL RRMPTKIGEK TYMASASNAK GGGVHGMPGW WAAQAVLADH R

> RXA01342 (1-1512, translated) 504 residues  
METPTQMDV RWLYTQSQLK LREILPTNKT FDVIQISELV DPTDFIRPNS VVLSVGIAFA  
ETPDGLRDWA HRLADAGVIA IGFGSGLTFP QVPQALIDAS LHLGLGLFEV PREIPFISIT  
SSVRDEQTRR AGRLLQELL EQLRLNSIAI SGGIEALCRA AADYLGGAVT IVDSGDRVAC  
SITDDLDAL PQAVSRLNGS SQALTDATNF GFIRHMTYR DRHHVLSVLM PTRPTDQHRA  
LIRHCAGLAD ILLQRPAMR DREIEVRSIA MSLLGRSDD LATIHRVFAD ITDASGNIRP  
ILITGNTPQS VRKALSSVAT ALYKQERALA HLRLAESTEL LFLRGSRSVH NIVQLFGTAA  
SGVRLCIGLP TRAENIDKKL IRELATAKT LQLGTHAEPR DGTLLWLQNP ELRKILKIRS  
RDTYDRLLDH DRTNNTLAP TLVSFTQHS HIGDTAKELG IHRHTVTRM IRIEICEID  
LNDPLTRAEL LLVIATKEGD VEKQ

> RXA01348 (1-492, translated) 164 residues  
VGFVWSGSDS QIYPELRKME AEELLVGSDV PWGSKGATKT EYALSEKGE ALRKAWYEPV  
TYGPTRDPA LKAAFEVGT NGDARRHLRA HIAHFEQQKI QSESMIDELK AKTHPTLARR  
LERSPKKEHE RIVAFKVLAY EGQIARAQAE IEWAEGKLK LDTL

> RXA01349 (1-777, translated) 259 residues  
MATSRRAEN IDQAGSEFIE SDSGHTATPE EVVATALTFF AEDGFSETKL EKIAKASGMS  
KRMIHYHFGD KKGLYIKAVS YALRLLRPEA EAMQLDSAVP VDGVRKIVEA LYTCITKHPE  
AVRLLLMENL HSQDSVDSTA AYSDESNNLL NLDKLLMLGQ DAGAFRPGIS AEDVLVLIS  
LAYFRVSNKV TLKNLYSLDL ESEANIEGMK RIVVDTVLAF LTSNIQNSGN SSYLVVGGKT  
AEPETDDSVY SFDTDVFEN

> RXA01357 (1-303, translated) 101 residues  
MSAEELDNYE AEVELSLYRE YRDVVSQFSY VVETERRFYL ANAVQLIPHN SGNDVYYEVR  
MSDAVWWDY RSARFVRYVR VITYKDVNIE ELDKPDIIIMP E

> RXA01359 (1-1182, translated) 394 residues  
MIDSRLAWA YLSKVVEGPN AHLQKLLKEG HDVERIAFGI KHREEWIGEG LLKNTDSRYS  
IDTAQTDLET IAKLGGRIT PEDDEWPMEE LDHAFGFAAS GMSDHVRTYQ DDALPPHALW  
IRGGNLRITLS AQSRTLVGTR AISQYGTETV REFTQNLVSH QWTIISGGAL GVDVAHSEA  
VRAQGSTIAI AACGLDRSYP SHNRDLFNQI AKSGKGALVS EYPPGTTPPQR HRFLTRNRLV  
AALSQGTVVV EAAWRSGALN TLSWCAGLGR IAMAVPGPVN TAGSLGCHER IRNGSAQMVT  
SADDVRSLLG AVGAMDSQTQ YELNFAATPV QGLTRNELRV FDALDDRGEA REAASIATEA  
GLTLQLTIFL LIALNKRGIK KRDGTAWSRN AEMP

> RXA01362 (1-1395, translated) 465 residues  
INELILFDVH DLVKYGVHVV GAPQESINFL SAASLYHPQT VLDSFDHDS GNLPLGKDDN  
GNWDRRPHKD RIQLVNADTL TVWKSILEDE QTPYLDTRMV YTVNTEAAAA LEKLASAPRI  
KELGLQFSSG WNETTDKKGK YFDVWGYPY SWSADILQGP HLGVAATPMIK QPNPTMKHNO  
DWSEIDFEAI PANFIPATAY QPDRQTKPTY DADYGTWTFG DKQVPVADTF RIAWREMAAT  
TGFRTVYPSV IPPGANHVHT VNSAASRSNL KTLVGAQLG AILSDYFARS SGSSHIFNDI  
VRKIPLNFT SLEKQFARTY LRLNCLTSAY APLWEEITGE PWDVQVPLRN AEQRRAAQND  
IDAMVALSLG ISADELCMIY RTQFPVMRRY DQEDHFDANG RKVPKEIKL QQKLKDGQEL  
SVEKRTWVHP QSEVSYTFEY PFRVLDREAD LRAAYAKFEN QLKEP

> RXA01364 (1-1866, translated) 622 residues  
TGTHLYDSLQ LLFTLVKDGK HPTDAKAVAF DAEAGEEGLH FRNLSADLFL PAATELIDRV  
GLSNEALNKV LENLLLSRVQ SGKDRGFISY ATLGVTLELQ VYEGLSYTG FIAQEDLFEV  
APHGKADKGS WMLPVSKADE VPADSFIQVD QEAPGGGVK VRKRHPRGSF VFRQSSRDRE  
RSASFYTPQV LTSFTVTQAI EELQASKRIT TANDVLSLTI CEPAMGSGAF AVEAVRQLAE  
LYLELRQEEL EQQIPAEADRA KELQKVKAHI ALHQVYGVDL NSTAVELAEI SLWLDTMNAE  
MDAPWYGLHL RGNLSLVGAT RSLYAPSLN KKAWLTATPT RYRLDDIAQA IDENKAEPLF  
NHGIHFLFP STGWGATADA KDLKDLMAE IKELKSWRTS IRASLSKTQI KQLNNLALRV  
ETLWRFVLMR IRIAESQISR STTLWGQEPY EVSEVVTREQ IEQDLFGNID GAYNRLRLVM  
DAWCALWFWP LDAVATAEHP ERPALPDLDE WLATLTELIG IDLPLKSKNE NQIVLGPDTN  
WLAINDAEAT DLGFSGALSF ERVSANHPWI NVARQVAKQQ SFFHWDLDFH HVFAKGGFDL  
QVGNPPWVRP DVNFEDLLAE HD

> RXA01366 (1-390, translated) 130 residues  
VSQFRRCRSP GCGKPAVATL TYAYSSTAV VGPLAPAAEP HSWDLCEHHA ERITAPLGWE  
MLRVNDIKVD DDEDLTALAQ AVREAGRTVS GLVPEDEVGG NHPVNRSARI AEQKVHRRGH  
LYVVPDQDES

> RXA01367 (1-402, translated) 134 residues  
MPVEVPRHAS RRQAFDRAVL EAYSPLYGIY QKELSNLDIA VDTVPRMRLS ADLAILPDEI  
TADGPVPLGR VIPPAIDTKG NPTRARIVIF RMPIEQRTN AVERHELLTH VLTSLVANYL  
NIDPRDIDPG FQDL

> RXA01370 (1-351, translated) 117 residues  
MGAWDDAILT EEVNVDFLDE ISELDTQDIL EAEADACLLV VNQDNATEDE HLNQAAATI  
AAIMFGAPYS AGQVLENYPF IRELVGEGSE ALRGAAAQVL EADVEYDLE AYLEALN

> RXA01372 (1-591, translated) 197 residues  
QDTFVLPTLP TAAGLSPARI VASISTLLDL LEADPSIISD RLEHLADCID EEVESLSPER  
DELVNPGRKL RAYVDHARIV HTGRTDVGLA IANVIAPITW RRGVLSAVLD FPELMESLPE  
LRGPEPITDD IFHDPIFIDDE PGVVPFRAVV WAEEEPGIPD AMAQSCDGPS KGALTQALRL  
LVRGQSATTY SIEEKDL

> RXA01378 (1-1278, translated) 426 residues  
HVWISPGASN PIKDRFPWT LVKAFLLSPA ALGETVSNRL KKASAPEEKR ALETLSQLNS  
AITPQTSQKY QSLLSYLGD IGVKKNSDTRV VIFSERVATL HWLQENLIRD LKMPNSIAV  
MHGGLPDQEQ MRLVDEFKKT DSPIRIMITG DVASEGVNLH TLCHNLVHYD IPWLSLRIQQ  
RNGRIDRYGQ THNPSIVTFL LDPAEDSKVG EVHVLERLME REHEAHSLLG DAASLMGKHS

ERLEEETIRE VLRGAQNFD AVADPAEVL NPAGLDDIDW LLAQIAQADA KAETEAET  
 ENQTAPDAAS NSTQHAQRRL YAQESSFLYD CLLEGFNVP EDSINRGVG FKKHDNDIVE  
 LTPTDDLRRR LDFLPQDYVA ARKVKEDLL ASTLMRGQER LNAARTGEDG STWPSAHLG  
 PLHPVT

> RXA01379 (1-921, translated) 307 residues  
 LNVEEWISDH YLTNDADKGA SFSKVRERI KEWKTTEDAT QSGPLTRFS SNRLQLQHAL  
 SELDDATTAA SLVASALGYG VPSARHAQRG SDTISYSSW GNAGSVEFLA ATPAESFEEN  
 FRSLPLEPVA VNDKPQDITA AKLVGQIFLS DTPPAFVVIT AGKWVLAER ETWPLGRHLA  
 IDISLVVERN DTKAQGEMQQ TVVALARENT ERAADGTTWW EETIEQSREH AVKVSSELRS  
 AVRESIEILG NDVLTRYEAK ELSTAEIDGG ELAKQSLRYL YRILFLLFAE ASPELEILPT  
 GTPEYDE

> RXA01380 (1-2016, translated) 672 residues  
 SLILGCDTKA RLEDLYLPFK KRRKTKADIA REAGLEGLVD KLIDAPSLDA AAQAAFTTE  
 GFEDSKKVLG GARAILIDRF ALDADLVGEV REQMYRAGSM AASVAGKEQ EGAKFKDYFE  
 FSEPFDKLPS HRILALLRGE NEGVLSLND AGDDIIEGL IADRSLDTH TSSWLAEAVR  
 WGWRTKLYVS SGLDVRMLK EKAEEGALDV FATNLRDVLL AAPAGQRSTI GLDPGFRNGV  
 KVAVVDSTGK DVATTIVYPH QPQNRWEAV SELANLCATH GVELMAING TASRETEKLA  
 GEVADMIKAA GGTRPTPVV SESGASVYSA SPIAAEEFPD MDVSLRGAVS IARRLQDPLA  
 ELVKIEPKAI GVGQYQHDVN QVALAKTLDG VVEDAVNAV VNLNTASAPL LTRVAGVTST  
 LANNIVAYRN ENGGSRRKE LNKVPRLGPK AFEQCAGFLR ISGSTDPLDA SAVHPEAYPV  
 VRNIAKTGL DVSGLIGNSA VLTCLKPADF ADERFGIPTV TDIIAELDKP GRDPRPEFKT  
 ASFKEGVEKI SDLTPGMILE GTVTNVAAG AFVDVGVRD GLVHVSAMSD KFIENPHEVV  
 RSGEVVKVKV MEVDVDRKRI GLSLRLTDEP GAPAPQKRG RPAKQQRAPQ KQSAKPATGS  
 MADALRRAGL GG

> RXA01383 (1-1143, translated) 381 residues  
 MNLSLEIRQ ISSGTISERK TWIFPTAARS FNQNLVHPQS IEIDAQTGVI LAMENRLQRT  
 EVESVEYPTD LPNPAWTGPA ISWPLKDPSI DFPDPLPHSI SELPPQSDNP RHLRVSISLD  
 AVEGAFPRYR IGDSIRIPLV FARDTPFMSG LETTRRAWIE AATEMDIHNT WPIILTDGWD  
 TALSHSDKPI RHEAELKGF FHSFLGSEMP LTDLKIERY GGLGTFDSGA TRWQELTDTD  
 DAYTENGSWL LEVIVDATLD GAIPPLPQP QFEASITHIV DEQLWVLGQM LPVLRCDLE  
 TGKYLQTYV PISVSHSSL QFSEGLIHDY ENAWSLNPGV RMLAEPQWI EPVIELDVPA  
 PWELQESFPD GLYFLTDGKQ T

> RXA01384 (1-1716, translated) 572 residues  
 MRSLSVLDL LTSKSKVATK IVERIEKHP VHGLGWMYP PFHPWTDAST LTIERNGTSR  
 RASQNGAVL HQHEQVQTIG LASYFIDSKI WVNELAGLDR INISESEVAG RDVLVLPLSD  
 LTLSDAKYG VVLAEDSDE SVRAVSVEFL DQWVDEEPP AEEVPKYTET REELPPEIP  
 PAPSGNRNLR VLCTWGAMG IPEWKPGDQ VSLFLSFDLD DPPFEQLKTT RRGYTEPGEI  
 YGNQRSYKFH ADGWNAVIS KVLRTENL TGYFTHSSYA DTSRRTSAVI TAVYRHGKDA  
 IIDVTLDGAK PPRYQESLDW SSTSTCDGET IWLSDKSLPF VRGFNVSTGK LVHEISIPTF  
 NEIALESGNR ARAAKKLWEL PDLKEATDPV PAIPAGWKLH KRFGKNFHIV SADNGTWKQT  
 ILRIKPFKAI ELDLGYAKIS TIYQYGERIY LRSDLHQITF NQDLEILSVE VHGNPDAGYW  
 PLSDLPPGDS PTLGFPIGSL MMFHEQQDIY AFHDPKTTKQ LTTVNLPKRQ FEVEYASQNR  
 IVISLKNPES RLIDKLLVWE PQTRWREQNL ES

> RXA01390 (1-657, translated) 219 residues  
 MFRRSLPSNK TSSASSASSA DTSYSVRLGR PEEPGYQPEP SYSEPYTDS FAPAGAAAAA  
 AAVAPPMIAE QPQIVEDARR GTLDFGLLI RAVIGVYLIV RGVFTFFTLG GSAGLAGLEA  
 EFAGYQWPEI LAILLPSIEL AAGVFLLLGL MTPVAAAVAT VATSFTTLHQ VNTHEGGWGE  
 LSEPLMLALI LTIVVGLQF TGPGKISLDS GRGWQSVHW

> RXA01391 (1-690, translated) 230 residues  
 VAAVAFAYV IDGGVEEASG TPTSSSESSVA ATAPAAASSET AAERYAMLAS LDVKGRAPGT  
 GYDRELFGPA WTDTVSVEYG HNGCDTRNDI LQRDLDDIQL REGTKDCIVT SGLLSDPFSG  
 ELIDFVRGER SGDQIDHLV PLHDAWVKGA QQWDEQTRKN FANDPDNLLA VKGTLNQQKG  
 AGDAATWLPP NTAFRCDYAK KIITVKDRYN VVWTEAEASA LERQLDTCAA

> RXA01396 (1-258, translated) 86 residues



LKAFNTNFAA TLATGKVGDI TTTVLVAGDD EDAKNALITD VNAGGLDALD AGSLKRAHEL  
EAVGFLQLTL AGSEKIGWTG GFGLVK

> RXA01397 (1-420, translated) 140 residues

VFMIKELLNK LFGNKKASPA MTQSETISHK ENNTMTTYTI FGRGNMGTAI AGVLTGKGAT  
VEHIGSADSD IATINGDVVI LAVPYPAVES IIASHKDALA GKTVIDITNP LNFETFDLSL  
VPVGSSATAE IQAQLQPPAF

> RXA01400 (1-1500, translated) 500 residues

MAISVSMPKA ISREELERAW LEVIERHGTL RTVFSTGMGG EVQQHRIDVG PGKWIDHAVA  
PGESINEALR AVLNRQCSPY SRPSHSLCII DAHPRPTVII GSDHSHVDMW SMLVIVRDL  
AALDMELPVE PPLAFESHTA ELLAAPPAPPE RIHQRWREIL EAGGGKMPQF PLPLGDAISM  
PERVEVRDIF GVNGLAIIYA RARAQQVSSL ALTISVMADV TAALADLPLR AVFPVHSRFD  
QRWHDSVWGF ISNSVIEVPD SDPHTAAQAV REAVSLGSPY LAELLEPWGG MPETPGMFAI  
SWLDLRLRPV SIDDIGLQAO YVSASLRDYG VMLWFILDRS GAHLRCRYPD SLVARENVGR  
WIDAIVAQMR AEAGTVNLQA GGEQLTLRHG TRADISEIAP LLARNAADPC ELVDLEHALD  
LLTHESSHFL AVVRNARGKI IAAMQLTIVP EFSRGGALHL HIEGPFIPE YRTTDLKKL  
RAWAVEHGRA RGVKVEEVG

> RXA01401 (1-261, translated) 87 residues

MNSPLQHSFAF PVPGAQLSTS YSDEHGQAVI QLHGLTSSRQ RDRLLDLDLG RGLSGTRLLR  
YDARGHGTST GRAASTDYQW DTLAGDL

> RXA01402 (1-474, translated) 158 residues

MGCATLLKAA VLNPDFRSGF TLMLPPTAWE SRKAQASEYL SRAEFLETHG MDAFLNAEKL  
HAQPPATVGT PDTVPDISAE LLPWAYRGAA QSDLPSKKEI AKITAPTTIL SWTDDPGHPV  
STAIELTRLM PNAQLRIATT PAEVARWPQH LRDDLQD

> RXA01403 (1-414, translated) 138 residues

PITYIDGHPY VDGAVGETGG LMLQPAIDAG FTRFFVIASR PRDYWRKEIG RPFIFIKAALR  
RFPTIADLTI ARPALYNSVK QQILDLEKQG SAYVFFADNM NIQNTINLK KLRASFDAGM  
QQTRKDWPEI MSFLNQTR

> RXA01405 (1-456, translated) 152 residues

MSKIVDLRYG TRRSSELSKR SAEVFAEAE HPITVTRRDG EALVLSQRE ADGRARLLEL  
AAQLITVATD HQGTLAERMA KVFPWMLALS VADREACARE ILDAARASFA TEQPHLALTE  
LTSWKETAAA VAAGLSNTDL QWYDDPHLVE RP

> RXA01409 (1-816, translated) 272 residues

DFPDVTARLG YEYMLTTPHV DFGPFRRHPK ADDDLVAALK KRAKDAGVTI PALLPVQRIS  
WPEETQRVAA VRNIKRIIQL AVDLEVDTLN TEFSGRPERS EDEDAFYRS MEELLPILEK  
EGIKFNIDPH PDDFVENGIE AWRVIRGLNS KQVGFVYVAP HSFHMGDAE AILPAVGDR  
GAVYLSDTFD HHKSHGLRYI TNPPGNAVVRV HQHLKIGDGD VNFEEIFSL RSTGYLDRED  
ALLVSNVFAE DEAADEVSRV QLEKIRSLIE NA

> RXA01413 (1-600, translated) 200 residues

LTHLFLELDE RLVLGQQDG YQWTEHLFRL PLQHLRNSPN DLQGLKIRWC ELYSTTGKDQ  
GVLLPQATV VTPNNFEAST LSGLEKLETV EDLKEAARLI YEQGPQYVVV KGGMDFPGEN  
AVDVLFDGSS YHVFSEPKIG EERVSGAVCT FAAVITAEAL KGAEVVDPVA TAKRVVTRAV  
QDAVASNAPE TSVWLAEDNK

> RXA01414 (1-507, translated) 169 residues

MAVFDFPNPV NEYAARCTAG LVVLLSAATL FASGDLRIIL ASILTFGFAL RVAGGPRYSP  
FGRLSVHVLV PLLKKAPILT PGPPKRFAQT IGLGFSGTSL ILMAFGFNVA ASVVLVMLIA  
AATLESVFGI CLGCWGFGL MRYGVIPEDV CEQCFQKES RTGWLVS LK

> RXA01417 (1-597, translated) 199 residues

MTDKFDRVLA VEVCIQEWID EQNLTLLEVPL MIARLQLRDV AKDITAVHEE KFYDLTDIDT  
DAFVKNIKLG WNERLIKSL FPQPDVHKQH FTETEHGIDA TVTVWSKGF PESGPDFLVS  
YVDGLWSADI RNRITKFQNR EIVSKFYFTP EHIKEDGDFS AEIFINRPEN DDDSQDLVEV  
WTDQDTRYCG EMIIYFKWL

> RXA01421 (1-387, translated) 129 residues  
 MTSKISGKR PNLPSLTGAR WLAALAVYFL HALVFLSVYP FQQSELFATI HKFVPMQLGS  
 AGVTFFFILS GFLIYWSNSQ LKGMKNVLYY CKRRITKIYP MHLIALPMFI EASAKFTTTG  
 ITWVLILRE

> RXA01422 (1-783, translated) 261 residues  
 FGDSHTSGTN APFRTDERGC LKGANNWADQ LQSQLGLGAG DLIDVSCSGA SINSDFHFS  
 DEVRHAEARG AIGPNTTIDIF VOLGKNDQWG LSNVNLLQSV QTCLTDVFAG CGDAAVAAGK  
 MQDPNAVTAE NYAERMKPVI DYLYYYAPNA EITLVGYQEY TARSGSQVCV RLGGTPLVKN  
 DAPALVSFMN KLDMAIDGAA GILGVSHVDL RSATEGHDSC SNDPWVNGVF DARAEIVGGP  
 WHPSVKGDSV TAGILRDRVN A

> RXA01425 (1-885, translated) 295 residues  
 VLSPDSGITW ALSIMFLTFT VRMVLVKPMV NTMRSQRKMQ DMAPKMQAIR EKYKNDQQKM  
 MEETRKLQKE VGVNPIAGCL PMLVQIPVFL GLFHVLRFSN RTGSGVGQLE MTVEQNANTP  
 NYIFGVDEVQ SFLRADLFGA PLSSYITMPA DAFDAFLGLD VSRLNIALVA APMILIIVVA  
 THMNARLSVN RQEARKAAGK QQAASSDQMA MQMMQMMNMM LWFMPATILF TGFIWTIGLL  
 VYMMSNNVWT FFQORYIFAK MDAEEAAEEE EKRAAKRTTA PKPGVKPENP KKRKK

> RXA01429 (1-618, translated) 206 residues  
 MLQASLFPIV QEHIDFLHPQ ARKSVFWELA PEVAAKADPV FEKEAWLSTT LLEYESCGFN  
 IGYRNGTPAL ASVIFCERDA APGAKALPTA PVSSDAAIIS SLFIDEVFRG TGMESALLDA  
 SLMELIRRDY PAVEAFGYRS ENTEADAIAA RRLEIGLIDV EALESAGFEV VADHPVLPRL  
 RMELPPATVL LTAKDAQRLQ QEMGAI

> RXA01434 (1-366, translated) 122 residues  
 VTDGNTSTAW TSTGGDGLLV DLSTPARLDR VILTTGTGSD SNVTSTVKIY AFNDASPHSL  
 SEGIEIGTVD YSGRSLSHSI RDSSKLPGQV ESVVILVDEV RSSQTSNTNP QMQIAEVQLV  
 GW

> RXA01439 (1-546, translated) 182 residues  
 MTRYFAVSNL QELGSLEVHK LYKLRVDIFV HEQQTPYAEI DDTDAAPTTN HILVWERADA  
 TPTNLIGCAR LAPITAAELK AYTGKGISLD DATPLSQLGR VAVAQEGRG GLSGELMRNA  
 LRLAYEQYPD RDVVLTAQKP LVDFYAEYGF EVLGEEYLDG GVPPLPMLLK ADELERFSDL  
 DA

> RXA01440 (1-1008, translated) 336 residues  
 MKTKWLAIIP FVALAVVACS DTQPPVTETV TETAPQPTSE TAAQPPQPTT PAETTTQQA  
 GINLTPRYTR QNVGHFSSGY QPGQVSFSSA DGTIKCEFRP MEQDAPINRE PSTDWRLSFV  
 QGACQFDDGY VVADTNVENR PGFAEYTTAI SHVMPENYTT LPPGTIYDLH TMACFTESAD  
 EISCIKYATN ETFRISAQGF EMLSNAQRDA ELTTQGGLYQ AFSNIAELRF SDGNAMSCFF  
 DAPGSQDFWC QTLSTPGWDD GSNLIHLTVT GGLSLMGTQ VGNPGLDYFR GRQLIEAPNS  
 LLDASLSVTL DGDRVRFRTA TGEEMWVSSS DYGLGV

> RXA01441 (1-1029, translated) 343 residues  
 MARTTTAHAV LMALSSVGLL MLQACSEQEQ TPEQTPAPTL TSQAPETPQA STTSSASSTA  
 TPIATPIAAT ELDYLHIDPA TYDIGVQDQE TAVFTTGDGI TAQCFFEATP GETSYQIKEF  
 DFDETAGTCA FGDQHISVTT DENVRERFAE LSETEELPE AQATLDVGEM VHLGHMGCWA  
 PSVSEFSCLD FASNQAFTMN EQGFHELDPA KATEQLINSS GQVQTLKMT NFQFTDGTST  
 TCVSELQAEF FLCHNSGPGG WSTSAGPANT LWWNLNQADS EFEGARPTNP TQSVYKSQOI  
 FGPGSYLLAN GVSAEFDGTT LTLTTPQGNQ YWANTHDFGA GTH

> RXA01445 (1-993, translated) 331 residues  
 MIPLINVRFP VAALPLALVA TVWLNAWADH LLLTGFIYVL AVEYATSRGR FALALILGVE  
 WILIAYGVAL ERPLEAKDSP SLITEILLIL VAAGTGAGRW KILSERKQRA ITQOEIIKKI  
 RTDIAHYLHD SMARSLAIMI VQSKLTELEP DPKKIQEKLN SIAKIGQEAV ADLHQLVRHL  
 VVEESAEEKAT AFGAWAAVSI HDTVNSAIQL LVDAGHVVSF DSRKKNYKLD HIAETAFALA  
 FNEAVCNAIK HSPPKANVTI RITEKAQSLQ ILVMNPIGDW HANGESAIPG VGIGVESLTR  
 RIRNIKGQVC VTSLQGYWKV VISLPLKCED S

> RXA01447 (1-849, translated) 283 residues  
MRLLVLRCD A PHINEFPALS TSVEIHDLPA VPTRKDLKIL DDVAFDVLPO DPTPSLDEIA  
KQPDVEHLSS PKFAPQQPET RLRIVVIGSD AALSALVTRL MRADNLWAEI GFVPVGPSTA  
AKNWGLPADE AAALALALTG LVNPAPLIRD DVAVAVAGSA TITNWEPEI TGEVIVDDHV  
LIRHEAASKA PRRGVYGARL VPMLDAPGIA AVIMDTPLPG EVPSRSLFPR PSGSVIPESF  
STGRAMQAGG PSLQIRVDGI SRKRKVERVT FYRHLRDLQI VRP

> RXA01448 (1-780, translated) 260 residues  
MAIGGILIAT MFPPGDGGS DRMIDAFIGG GVGILVIALL PSSPLDAGR H QVANVLGIAA  
SVLEDVAASL KAKDAAKLNN ALEALRRSQA SVNKLETAAS SGKEATTVSP FLWGDRARVR  
SLYRILAPVD NVIRNARVLA RRAVVLTEDN DTVSDEQIHV IEEIADIALR LSDLYEHHKE  
ISEALEIPEL VNRLRQLGSE VGEDIAEDRV LSAQVILAQS RSIIVDLLQI CGMSRESAVA  
VLVPTSESPA YPPELWDD

> RXA01452 (1-279, translated) 93 residues  
VIRSFADRDT ELVWLREGAK RVDPRIHKVA NRKLHLLDAA TTLDALRVTP GNRLETLEGD  
RVGQYSIRVN DQWRICFRWN DSGPENVEIV DYH

> RXA01456 (1-522, translated) 174 residues  
MNDSIFSPQA LNKAMLEAVE FIHAEGWDAG PTLFALVPTE MLVDTLDEAA DDSPLTLVVQ  
DNLDPNLLPG SEALGDYVSR LAWPAEIAGA VLAQEIMFTD AAVAGSEPRP ARLFSGVLRG  
EAELTLLQLR PTEELAERG PFAEDEIELR GPGVAPGVI AALRYTLEAD PDEI

> RXA01457 (1-675, translated) 225 residues  
VASTPHKHVR VALGLVALIP LLAAGTGGGS TETSTESTAE TTPATTTEAT TTPATTASSS  
VIETTESSTA ETSTKESGET STSKPRMTKD VEVAYKAFSS LAPVELFEQF ETCDPGSGVED  
SFACNGPEVG QFQFFDNASK ATSTTQLLLE LRSSRVVEDS GSKVVGWTTI GTMSIITVVD  
NDQGLVLQOM VSSDKIDPEE RIYELGLSTP KDTEESSEET SASKN

> RXA01459 (1-810, translated) 270 residues  
MNSNGFGFSF GNNDDDDDKN RNNDPFGLFG GNFGFGGQGG AGGPGGLGDI LNQFGQMLSG  
MGDSMNSPEA AGPVNYDLAA RIARQQIGRV APVKDSEKEA VEESLRLAEL WLDNATQLPT  
SGHRVEAWNP ENWLENTLPV WKRLVSPVAE QMNKAQLENL PEEAREMMGP MSSLMNSMSS  
MNFGVQLGNA LGDLAKQTLT GSDFGLPISP VGVSAVLPGN IAEASKGLNV APQEMLVYIC  
AREAAANASS STCRGLSSAS FPPLRNTPSA

> RXA01460 (1-294, translated) 98 residues  
VPWLVERLVS SVEEYAVGLE IDTSHIQEAM GNFMQMDNPDP ERLQEMMNEL QGMDLSPRIG  
SRNANAVSRL ETLALVEGW VDIVVTQALS ERIPSPTP

> RXA01463 (1-1164, translated) 388 residues  
MEMSYFESHQD PNNPESHINF TMAQMEIQRW TLLISNPEAD ASTLVMELKT VTGESKHFIN  
QAINAMWALM KLPILRVVVE THFHVRIPLY ARIMQAVKQA KPELWDEL DH RIAEKLTPRI  
AGQALMEASA LAGLITRWIK ELDPFTTGKK RGPKGSDGTL TFRHVDGRTY ISGNIDGVTG  
KLFQKALEKV KQKGEDLARA LVTFLAGRTK VKIVSAVYTP LVGGVSWIPG VGFLSQEESR  
KLGKTASKVI DLDTIATRVE NGYTPSPELR LYVMGRDGTG RHPGCTVSAD NCQIDHVIPF  
GEGGLTVAWN LQCLCAHHN MKTDGRIQAA IDSMGRVAWI GPCNRTVVTE PVGPLAQEMP  
TGQWQQTLEA RMEKTFEKL R SSLEVLDD

> RXA01469 (1-1032, translated) 344 residues  
MAFADIVRSV ENRTNAATLN WSIKNGWKPE VTGFSGYGSG RRVRLARVL MSNPENLLVD  
APSQSITQQA QRGWRQFFTI QVPNLPVTVT VGGKTVTSST NDNGYVDLLV EDHNLDPGWH  
TIQIQAEGST PAEARVLIVE NTARIGLISD IDDTIMVTWL PRALLAAWNS WVLHTNTRKP  
VPGMNRFYEE LLKDHPDAPV FYLSTGAWNT FETLQEFINK HALPDGPMML TDWGPTPTGL  
FRSGQEHKKV QLRNLFIEYP DMKWILVGDD GQHDPLIYGE AVEEHPNRIA GVAIRELSPG  
EHVLSHGTTA SLSTITTNGG QGVPPVHGRD GYELLQRYET KPFA

> RXA01470 (1-426, translated) 142 residues  
MTNNALTVPT RTRHQADLLT ADFWEDMGLP QLKTITIEESI DDVALPMHTA VLEISGMPKE  
LRQTVESAMV VCIPSPSELS GSNRDPLTAR WFTAWRRDPF ELGLTECREV ITGTPRELDK  
LRGVLESLAD EYRFEVELRI VD

> RXA01471 (1-807, translated) 269 residues

MQSFKTLESW PVDNVSASVI SDGAVHFYGD VDRVFELMSV TKLLATYGFL VAIEEGVFEL  
DSPMGPEGST VRHLLSHASG VAFDKPVAEK GVGERRIYSS AGMDILADAV AAAEAMPFAE  
YLREAVFEPL GMENSELWGS AGHEARSTVA DLTKFGQELT APTLISPETL AEAQVQVQFE  
LIGTVPGYGM QKPCPWGLGF EIKGQKSPHW TGDLMPEA GHFGQSGTFF WTVPGSGQVG  
VVLTDNRNFGP WAKPLWTAFN DEVWAEELNS

> RXA01472 (1-456, translated) 152 residues

MNQANLP AEI ADLSDETALW EIINEYNWDD GFAVPLAVVR HPKCDRALAL RLFWDIDETA  
QIHHSDEESA IAELYASTAE NDPAEFDRIM DYCTTLVEGL RKQTYPRGAN RFDTGFFNLE  
DPSLTDRQRK IRAGKTKFAL KNFEEAFLQP EL

> RXA01473 (1-765, translated) 255 residues

MTDIGDVDQI VWEFIHFHDD SINPFFFEFIK SDCINDEAIE RKTQILGIIL GNEPCGSVIH  
ARQNTIKPMS HTVSFGDGWI QVLEDAAEV SITDTLDALR FSPEQAEWAA EFGPLLCGPA  
NQPPAYLTAL DGHTKLPLSP QLTEFYSYAR SWTNSEALGN VIDPDDYLDH LTDPRRLHLQD  
LLDNEFERVG VLVDKQNRPL DPARCALFSL DALARAPYNR AYFVFAAPEP EIWAFENEHV  
HAPDLRAYLQ ARLST

> RXA01474 (1-546, translated) 182 residues

LVGIAYARFP DTRDDSI SRG KARSALEKST GLKERFARHF PAISIPVDTG DAADILVSGW  
WLSGSKKKIL TAAEIQT LFI NRLATGPLST QLETATGLKL QVVTNRERMK ITLIEPKGTS  
GHAI DPQAGK GSRGGFLLDN GQDEYDDVD TVTIPDALNV IGYILTHGTP PQEGWKVDVL  
ER

> RXA01475 (1-426, translated) 142 residues

MSIQGFSAGD YSACFEPRID AWVDIRGPRK PEWLAENIDN PLRHWGDNPH IPVSAKKAG  
NIYKETLR TM RASTKTPDQD PLKETLRSFI ASINQLAAK NFIDAGVRED IVVALEKLCE  
AAEASPEEIQ QAIVMGEEFI ED

> RXA01476 (1-342, translated) 114 residues

MSDSPCTVVI LNRTATATSI LRDIKALTGY GLSEIRSRIV AGLPVVIEEM FSNAWYDERA  
QLLLALLTKW QNEGITFEIR EVAEDDPIEA GALISLEVLR NIIEPDDNES RDGI

> RXA01479 (1-228, translated) 76 residues

VIGAAAGYVL GTKAGRKYH QIKKGYEAAI NSPATKSAVN AARKAIANKL DPQPRMKEVK  
NLRTADGHEV LEQDQD

> RXA01484 (1-546, translated) 182 residues

VLGTAQYDGV PSRQFAARLR HAAKLWRLHE IQHVYTVGGK LPGDRFTEAE VAREYLIKE  
VDPDLIFVSA VGNDTVSSYE ALDPEKLGRV LIVTDPNHSY RAVRIARRMG FDAKPSPTY  
SPAKFPSIVY FLTLSHEWGG VVVQDVSRLR GERVPDKVKH LCAQSKVCCA LRGVHAMS NF  
GG

> RXA01485 (1-2052, translated) 684 residues

MNFSLVHLRE NVRRVSVTVA IGAGALLISG PFFTAHTAEA TETYVLAESP EFYQDNVTDY  
TGQISSSDIT NIQA AIDDK ASEQKVIFVV FLSSFDGVD ETWTQQALQA NGG GNVLIYA  
LAPEERQYGI QGGTQW TDAE LDAANNAFQ ALSQEDWAGS ALALAESVGS SSSSSSGSS  
SSDFSGAWLA AAGVGTVAAG GGIWAYSRSR KKK TSAATLE DAREIDPRDT NRLMQLP MET  
LEHLAQEELT STDDSI RRGK EELAIATSEF GPERTRSFNR AMNHSTGT LQ KAFEIQQLN  
DSIPESEAER QSMLVEI ISS CGQADDALDA EAQNFADMRN LLINAGSKLD ALTQKSVDLR  
TRLPKAQETL AGLRTRYSAE VLESIDDNVD LASASLDEAE EVLPQAYEIE SMPAGEQGGL  
IDAIRHIEHA ITTADKLLAG VEHADENIST AKANVADLIQ EISDEINEAG QLKQSAGADG  
ARADWASLDD AVRAASAALI TASADA EKDP LGTYTELVDV DSALDTQLDT LRATAADQAR  
QLRVFDQQLQ SARSQIQKAE DLISTRGRIV KSEARHLAN AQKLYAMAQQ NRTRDTRAGI  
DYGRQA AVAA QRASKSAQND ITTYNNRHNS GGGTTGAIVT GMVINSILNS GRGGGFCGGG  
GFGGGGGGFS GGGGGGGGFR GGRF

> RXA01488 (1-831, translated) 277 residues

VLEETGAVND LALLDLFGAP EVPVYLGE PH AQTKDGF EVL EISAFIHGQN GIGEVLPAS

ESKALPGAVD FLIDSVNTHG DDLVIIATGP MTNLSAAIAK DPSFASKAHV VIMGGALTVP  
 GNVSTWAEAN INQDPDAAND LFRSGADVMT IGLDVTLQTL LTKKHTAQWR ELGTPAAIAL  
 ADMTDYIKA YETTAPHLGG CGLHDPLAVG VAVDPSLVTL LPINLKVDIE GETRGRITIGD  
 EVRLNDPVRT SRAAVAVDVD RFLSEFMTRI GRVAAQQ

> RXA01492 (1-804, translated) 268 residues  
 VTTTLWAVSD LHAAVKANAD PIENIQPKDP SDWLIVAGDV AERTELVLEI LARLRRRFAK  
 VIWVPGNHLE FSRADRYQG RDKYSELVEG CRKIDVLTPE DPYLTFGGVT IVPLFTLYDY  
 SFRPPGFTE QAVQAARDRO VMMDTEFSIA PFVDIRAWCW DRLAYSIKRL SKINGPTILI  
 NHWPLVVEPT YQMRWQELAL WCGTRHTRGW AERYNAEAVI YGHLHMPGIT NVNGVKHIEV  
 SLGYPREWEH WSGQHVWPYP VMEVDNAG

> RXA01494 (1-996, translated) 332 residues  
 VTDNSQFHAA SALVQAAHTV SVVGHLPDA DAIGSVAATV AALQQLGKDA VGAIGQLDSM  
 PENLYTIPGA SNIKFGDSLPE ESDLIIVVDC GSIERTGAFE SIIVNNPDKV LVVDHHTATNP  
 GFGAVNLIDV EAESTTTILY DWFDAMSVQI TPDIAGHLYA GLLTDTGCFR WGRPVMHMDMA  
 KELMEFGLDI RAISSALLDQ TSVDDLRLVG QIVSRIELRE AGPYTLAVLV ADFDTINGRS  
 RAVVEGLIEM VRAVEGADFG AVFKEYERGV YTVSLRSSNL SVASLAVHLG GGGHIPAAGY  
 TARGTEIAL DTLIEATVTL GESLRSSAHV DV

> RXA01497 (1-918, translated) 306 residues  
 MVGKLPIMAE TNENDLPVID LAQIEGYVVD DSEDDPVLL RPDGTPIETW REDFPYEERV  
 TREDYEKVKR SLQIELLKWQ NWTKETGQRH IILFEGRDAA GKGGTIKRFN EHLNPRGART  
 VALEKPSPRE STSWYFQRYI QHFPAAGEIV FFDRSWYNRS GVERVMGFCT ESQHAFLRE  
 VPMLNMLIG SGISLTKFWF SVTRKEQRT FAIRQVDPVR QWKLSMDLA SLDRWDDYTR  
 AKEEQFRYTD TDESPWITIK SNDKKRARIN AMRYVLSKFD YTDKDYELVG EPDPKVVLRG  
 RDQIGD

> RXA01501 (1-288, translated) 96 residues  
 MKEVAVNEVP AGAQLIDVRE TDEYAEVRAQ GAVNIPMSEF VGRIDEIDLD RDIYVICKLG  
 GRSAQVAEYL EQRGIEAINV NGGTDGWVAA GLPTEA

> RXA01504 (1-609, translated) 203 residues  
 MNITWLILAG VLAIIVVFF YLSAQKKKSE PQPPRQRQDP LKFADGSDF NARILGPGAI  
 ISRGGVVYVC RGAIQFRQGG YIWHEYLLDG KGKSEYLSVE YDEGQLNLGW WITRPDLAQQ  
 PAHDVTVEGV RYRKTESGVG TFTSEGTGTV ADQGEFEYWD LAEVGGNRLS SFERYGKDSP  
 FEVSLGWTVL PGELTVYPAP EAS

> RXA01505 (1-498, translated) 166 residues  
 MIHHIDCMPT DVSAEALGVS WNGESPEVLV DKLIDASPHP STCHLAVIGG SHVVTVETPD  
 GRFREEISCH AQEAEDSRWP LPDSITRENY LLQTNVAVLS EEDFARAAEE ISNGDDDWLI  
 ASFPGAGEHH LTALTAEFLE DVWEWFSSHLL YPEELTIVST RSIYKP

> RXA01506 (1-411, translated) 137 residues  
 MSSRNYSIG FILLFLAVLC LFAAVFAKPA VGSQVSDRWP GNNGTYSCAG ESGVVDEIVN  
 MSTPTDRATD PATGDTYLRV SKNLIIISGE GTPECTITVE GLDRVNSGAF IWLGGGFGPS  
 SPSSSSGGSS GSGGGVK

> RXA01507 (1-423, translated) 141 residues  
 MSQYLVDGVL GTLSYFVLAA VILVVGFEVIL DLITPGKLHE LVFVHLLPNA AVITVAQQVS  
 IGIIIVTAVL TSSDILSEGL LETAVFGALG LVIQVVMAV LEAVIPGRFR DLVEDPKLRS  
 GAVVAAVILI VVGTVNAACL I

> RXA01518 (1-474, translated) 158 residues  
 VAFMQKTSAG WLIATGGFLA AVSAILTWRF YGSMTSISIT VSITFWLLAV VCGFAGVKVQ  
 GRLDEGLIGQ DKSQMNPTI AYLAMLGRAC AWGGAIFFGV YVGIGSYVIP RAGELSAASN  
 DLPGVIAACAL GGIALSAAGL YLERSCEAPP PQSGEAS

> RXA01519 (1-747, translated) 249 residues  
 MNQDLSHEDS GDGNSVDRGQ ILLAVLIGLA LIASVIMLLA NSDGAMKIAL LAALWAAIIG  
 FFLVYRSRKQ VEAAAREKET LEYAHQSELN RLEAELVQEK MEISESRAR DQETLEEIKL

QLEEMRTQLS ELSGREWGYE PTMLRAEARR ILELESQQLS QQFQAPQPEV PEPVAVPEPM  
PEPAPVPEPV PEPEPVEVAV EAEEEPAPGR RRRRHAAPEE TGGRRRKDER QGGLSVADLL  
AAARKKENN

> RXA01520 (1-384, translated) 128 residues  
VASALDELGE TIVGLLVGEL GGSIVEIADD KRAQLAAALT YAGFLSTLQR DASYFLDEFL  
GDPDVTSDIV MDSAQQFQAL PSLDEVIAQY DSINNPGRQR LFRDLARRQA EISRAQDIEL  
WAIQKEDR

> RXA01523 (1-951, translated) 317 residues  
MKNWQEEFQL VNLTKLLHSD TETSAAISNG QMIKLTHEVA INAEKYRSLP AWDKAAARAF  
AVGMTVDKAV VAGQSAARLW GYQTLTVEKT VLCLLPERLR SKSSKHWPSG MRYKDRYLSS  
RDIREVHGIR VTGAFTFLD IALDDGVVAA VVTIDSARRQ NPSLTREKLM HSAESFPRHR  
GVKAYRQAIE LSIPNSDSAQ ETRARLILRE AKLPEIQSVK VQARFDQSHN KYFLVDFLIN  
EWIIVEIDGR SKYDSPELNE VLMAERDREK FFLNQGYAVL RIDPKQLDLN QDGECEFIGI  
LKNTLQKTPP EHLKQAA

> RXA01525 (1-1722, translated) 574 residues  
MRSFQSILDL VNSASEVATK IVLKRFEKRI TSETDWVPYQ RFSLWSVGSP LTIERKGPDV  
RVSKDNTAVL QRYQRPEAEG LISYFMDPKP WITELAGLNL DDVSEDTVAG RTVLVVPLSN  
VILSIDAEFG MILTAENDIE KIHAISELL EKWSSSHYPE PHFPAVLPP ASTGNRNLRV  
LCPEFSIPSV NVGDQVLLFL TFDQTLPPVD QLETRRGYT DPIQLDYDHR QYRFHADGWD  
AIISTVEPLH DEEELTGYFL HRLDPDSAYP TIADVTAHY HGTDALIDVT LDGVHPPKNQ  
ETLEGISTST SDGDIWFLSD ESLPFVRGFS VSTGELLHEI SIPTFQEIIVL DSANRARKVQ  
KQWPHDFSDC KGKTWELPDL KEVFEAVPSI PAGWRLDSF GKNLHNVTRE NPRLNDNFWL  
QTILRLKPFK AVDLDIGRSI ITAIYPYGR IYLRASNHHI TFNQDLEILN VEVFGDPEVP  
ESGLIYLPFG DSPTLGFPTG TLMMFHEQEG TYAFHDPETT EQITTVNLDR NSFSVAYSSR  
TKIVISLKNP ESRPTNKLIV WEPQTGWREQ NLER

> RXA01527 (1-2511, translated) 837 residues  
VIPNPNPNPK AKTLRLVSAL TAITVVGFS SPVHALPIPL DPSDPVSEL WVNPNARADD  
ELSGVDVEIS DFVMPNSNLT VQVGESFKAQ VRVTNRSET LSNTLQARR AEASFDMASA  
RVAATDNNYG YFGAMVTLDD ELEPGESVET EVEISTDSLS ISQPGSYPTM LALSGQLDGV  
AQHLDSQRFL LPVLSDDTDT EDTATPTTMI YPISAQTNVL GGETGEAPEE PLLLVSSDAL  
AGELDEGGRL QKLIDAYLQS SPAVQQATCL AIDPQLLDVV DRMTGGYTVT DTRPSTVRQN  
QRLRELWTAD NQPTNGVAGT GAENAAIFLE KLRQATATSC TVALPWANAD LNAVSTGNQ  
WLMREALQRG VTTFEEVLGV IPESNVVIPG NGFVEPSTVG DLGWAETVLN PDQAWVQSE  
ELVAAPDATE QSALDNPKPT PGTVPPTPM STVSVLVSDN TVWRTTSADR FHS LAPGITG  
VSYQGSLSAT LATLGQNPET VGYSNPDSRY DYAMDESAR NLTGQAALRL TVDNGDEDS  
VLIMPSAVLG AEDGAMLET TGALLADGSA RPFSLQYVT ANAEQRNTLA TATTPPDDTA  
FGAPYDDPAS LTETEILRTT QQA EYIDDLT GIMSNDPSIA LTRYGFTAPL RQDLLRALSI  
SERRSLARHT QATSAADKLL NNRNRTLQKL RSSVALLPPG NVYTRTSESS PLLIVAQNGL  
PLPAETQILY SGNQDAHINT PGVVRIPAQG SITLQMTADL PDDNLRTDLT LWLASPDGAT  
ISEPVEITVQ PRPNLGTTLF FVAAGILAVG GLLFIRKKRN VEKRSPTGTS PKPPPTH

> RXA01536 (1-1242, translated) 414 residues  
MAFGFFSRRK KKNKDKNPNE NSAVPAHSED SPQEVFEGNG RQVGDPPEQQ VDRDAKGRLT  
AADFLPDADL POLNRSRANM LRRELEYRFS LQNAHINIDG NTAMIQRSDG GAAHVSLRTL  
AMNAAGLDNF DQLPELVESF VHGTADATL NDLSTADLYK ALRLRLPTP GEGDDLVEHG  
LDRESQIRDD SILRTFTSDM SIALVLDTEH AIRIQPLKEL EEFDDLSALE RAADRNTWQE  
LYDANVDASF VDAESDSEGS SFWAFESNSY YLGSAPLFLN DLLAKWAPDL DQSDGVIFAV  
PDRDLLIARP VTTGEDLMNG ITAMVRIAMR FGLGNPTSIS PRLHLLRDNQ VTTFTDFRVV  
SPEMAEWED SAFDAPPAGA IGIEVRPDPY LMERLQQGGF GDFGDFGKPR DLDL

> RXA01539 (1-1923, translated) 641 residues  
MSSSDLASII GVEQQPVAYG ESEEPETLRD VLPRRLHPS EITPSYEVAD GEQRSIFGES  
APSDFDDLS VEEFDTSHWV RAGQDDRSDD DRLADEAGVP PSGAQDVADN EANLSGVDEQ  
LHMREVHAQS FDPIDVAKKE RKA AEK KYAK PPKSDNPYLA RDAKDAAARK RKINAHDNF  
AQEMAQAAMG PLRKGVTQT VMAACTTAAV MWCMSPRMTG VNVDMKRKFEN KDLEQAKDTK  
LSKYVSKDFW KSKLTRDKTE KEAKSLSDAF MQQKTAIISN RERIPMSVAS AAQTVVRLSD  
QAYEAMREVD TDGQAIVDAK DVSAQVAEDI DMVVKQGEH GLKSKDIYGA ARDIVGRME

RDPGYAARFN	ETAFGTVRLG	EQRRGMVISK	TPTWQFPDGA	GLSKNAGWFS	VREPMGNAQN
FADNLAATLA	TEMRVAGEQY	GSDGVRDVVA	GFMATATDVSE	SGLASAKKLL	PDFDTRGRSA
SRVRQIAMAQ	RTQAAIKVLQ	DDGNQTAMTT	EQVKEVQVWA	MDQAEKVMQR	DHPAILDKFV
RKHGQTFGQD	ADAFVKSITM	EKDTSSSEYTD	AMVRPQENRG	SGRELAARRR	VQAAQINQAA
QLDMNVHDFR	ESNLPEERPA	NPYEAYVRET	EAKTNDPQYG	Y	

> RXA01540 (1-702, translated) 234 residues

MTFAELSSPR	TIIAFNGRAE	SGKDTAAQYL	THMHSFHRIA	FADGVRDALY	ALNPLVCVEQ
AITTHGAIYD	RVATVVDTLG	WDTAKQIPDI	RALMQRIGTE	AGWRIHGEHL	WVNLAIKKIN
ELPADHAIVI	TDLRFPNEIE	WLNSLKANPM	NTIQTVKVIR	PDHESLTLAG	SEGTTSIHSE
SFNLTTDTVL	RNDGTIDDLH	SKLADFLSTS	PQPVLSRNAP	VPKHNAAPT	TDAM

> RXA01542 (1-5061, translated) 1687 residues

WGQKDHGKA	PLGDHDAVRI	YRQAEALMKQ	RAANNKGLDL	NDEATYGAIM	FASFDDAFAA
DAEAHGCVHR	PQFAKVTRRN	ILNSPQYTAI	KSSYDALVQQ	DLVAQQQQAQ	ALQQAAYEQE
QAAIFQARDQ	ATFQAEQTLA	QESVRQSEGV	GLPVIDPMES	YFREYAFYEG	VEMFGTWGTH
VDAGVSQFST	SDGRAIRALV	DEHLATYEPV	EQRGSTQAFF	ASVNAAFAEV	APHAAPMFSA
IAREGEGSKG	YQALRHREFDK	MVGTAIGPNG	LPEGPDLGGR	RLPISPYDPR	WSDREVVRVH
GTKLLSLSEE	SVGMIRDLDL	ATIHLQDNDV	YEGTHREDDT	KGGVRPLTQW	VNGEAIWART
ITENDQMRLP	NIGQFMTAKE	YRAAASWLRA	GLIDTADVAS	QKIDPNKVMS	DEGIARSEAI
LTYLSDEGVD	FRIEPDREPG	QLKVRIEGTR	IDIRLTDTRA	NEQWVGRVYD	SGTVIKYSAE
QTAERLRAR	ERMENGDGWT	TPATDYEPS	TEVVDLVKFA	LGREVERQDG	KGLVGVPNAR
HPRALEQAQD	AYFTKNRSFA	MVREGLSIVQ	DARDSAGPG	KWFDNEAKAS	EWLGNIALT
RARVAEELGV	EELIALSAQY	ADDPDFMPAF	AGEDELMAIK	QDYWAMLRGE	ETDLLNPGVN
RDDYMAAIRD	GDHEQIAAMT	SAMNAVTVED	RVRQHAALVL	DDYVGTVEPD	PVTGLRFNPV
TVAQHMPQAK	SLWSNHDDII	AALRATSITG	DELRGDEFYN	DVINQQLLKF	NPETAQKMN
NPDLDPQLAR	FGTVIAETIS	RNGADVVDIA	VDDNGVVRWT	AQRRVGAKDS	RAVDSKGQVR
GERTRHVQGE	IGQIFTRGEH	GEIVTKFNNG	ENYMFAPGYT	ASVVPQKPGE	TKSLEERTKL
KGYEQVMSEA	LVYRVREDLM	FTERSRVGAT	TSINSAYKRL	YDNRFVDF	ERSAEGLSD
EWRAALLETA	SLRVRYDNSI	RDGANVMEDI	RAQQRGFAR	NDNSRDALVL	TGGRNISVLD
VDAGKGFEDP	MMTGMAANQG	SVRYLLPSAK	VGADGMITPG	DPADRVPAVA	HPESWAMGFD
PHDRQNMTFS	NIMQASAVTG	GARTAMIQLG	GWNFEDGIIV	SADFANTHVI	RDTEDEMRPL
VAGDKLSDFH	GNKGVLTALV	DPAMSDADAR	AAGLESEVAF	FRDNPDLVV	MSPFSAISR
NGGTARELMT	NPQDVVFRNN	DGSTRVQPGA	SGDLNFIVTH	MAVDAKTNVY	DEEAVREGQG
RKASSQLAWV	LQAQECHEIM	EHFYGNVSA	LANFQEYLRV	TGLDVTPTYGE	LREGFSESNE
QRNIIEMPSI	YDENGELNNR	VNRAQVREAF	VEQISRAGGV	MEIPFQLQLR	NGAQLEESPN
NPDYMLPLL	SPHLRSDEDL	ADGSTSRHEY	TTRYMAIFDT	CYKLAEQAK	IDALRQEEAQ
HGTLPRAAEK	RLSESQKFVD	QAQKKVQASF	DGIANDIVAS	RIETKNNVFK	DGFMSARQSH
SATAVWTGDP	RLSVDEVAMN	SSMARELGVL	DNGYAMVWRD	PVIRDGGVRY	LRVINDDLH
GVAVNPVSVK	SFDGDFDGDS	VGLVGNLPKK	AHEEALSRLT	VEANMLDLGD	GKRMEDGTMF
YGLTLHDSLD	VQVAQHHDPA	MAENMKVIVS	ELNRYQREYE	AGEISREELL	EVNRAHMDLL
NEHYAQA					

> RXA01543 (1-2766, translated) 922 residues

MSLKQAIIVR	NEYTIKQANG	KSGRGSSPGK	YISGYMARSD	AVEAVAPIVR	NKLDDFIMRY
MARDSAVEQL	TTDSNADYDQ	QPEMNSRRGR	QGRRALTKQR	RAERSARRAA	LRAGVNTDSD
TTNPSQPVHK	RELAEFFTQD	GQRVHDLMLR	AQNGGVAFG	YGDVSLSHDD	LHAASNNVQE
LYENRHTVMK	VVLSFTQDYL	TAHGLIPEDL	DIKRAQDYRG	QVDQMKLRMA	VMHGVDRLAQ
RHYDDLRYVG	VIQVDTKHVH	AHLTMVDAGY	GHRAADGTQK	GKINKPGKAI	LRRGIDAWLD
QHQMMAHLSA	AVGYEKRNV	SYVKRWAFHQ	LTQESAAQFV	VACLPEDKRL	WRASTNAKEM
DKPNRLVREL	VEARLGETDS	PMPAALSQVY	QYAKKRRVKE	GLSKQDTQRL	IDNGREKIE
QAMNGVYSVL	SAISDEQRDV	STAMLTVMRQ	DYEDLLDGIA	RKKSQDLDEQ	GSSGSQEVGK
EEPEPSIEEF	GLRLRSYSAR	LNHHREQREA	FAVKKRSWED	ANSQGLADPT	SQVMWSFYDT
EEQYHAMCQS	KYQHFLTFAP	PVGQWEKQWA	EVADYGKRVV	GLRALRADRS	LARMSDERAA
EALGRQLYDQ	PGGGLLARTG	AEGKAGRAVL	DGRIERMVMT	YQKIDDLRR	EWAQLGARLE
VEGDAVLMDA	ADLRESGGEG	ADERQIQQT	IELPVADVSD	SVRTYLDEEL	RDSRDVSAHD
PVHTLRGRFQ	VVFRPEHDFE	QVGGPDLRDL	HYAWFSDQKV	SQPIVCSYGE	LVTQRRYAFE
RAREWMISSQ	QEPEAVAEEL	DHAGADITRM	EATSSEVSRT	GILRSAMLAR	IREQARQRAQ
RAAEQARRE	RELVAQRQQE	IDQETTQPAF	EVVQRHVQPE	SVQIKRGRTV	ALDKRVQPLI
RDAVDRAVL	SQLRSTRDGG	LG			

> RXA01544 (1-600, translated) 200 residues  
 VKLDDAMVMI EQRLVKGRGA TKTQLAPYEH IQRNIAARGL RADDGGSCFG YGDASLSNDD  
 VATAAEDIQD LFACGHTVIS AIVVFDKSYL SEHGIMSFD P NYFGQDIYAD THPEIDLME  
 RLAVMNGLLG LEGTFFEDMR YVASIEVSRS YVYAHIMMAD AGVDDARGNA QVKITDTERV  
 LFRRGVESRF VEQEARNVVL

> RXA01545 (1-1251, translated) 417 residues  
 MKLAGFNTNS PAAQRVAEQG EKVQLDAPVY AVFTPDVVEV EFIGTQHEPV LHVEGAIDSV  
 TALSQLPYDI QKITFDSENQ QRESGEYKFS PQQHKEIDK GLYLEGFQPP REMMTSLPWE  
 LPMNADVTVV APESQDAPPI VLVGLSEIHG VDFSQESSGY ELTSMFEDYR SQREAGEADK  
 DFSESISRAE IEGKDIFADA NRTRTGVSAH AQRLEQERAL SAAQLMAKLA GISFQTEPVL  
 VGAEESEDAE QFLAHDLDLT AGMSEWEREV TEFYNEKIRA QEPVVEREAE RDSDIETEVD  
 AAPTVSAAEI NDVIHDLDEL EFDDVIDLDA DDVVNTAEVE APASVSAAEI SATELDFDRE  
 SRAKTAQREA SRRVAQKIQT QESVREAYIR EQKHGYDASP AEGRKDFDEKI AERGLDL

> RXA01546 (1-696, translated) 232 residues  
 MARAKNKKQR QLQHAHDAAQ AEIAEAVAVN TVEPINARTG GWPSWVDKVV KLTGSLGGWF  
 AFLVFAIAVW PVAIIAAGTV VTIIGTWGVS VLPSLVISSI GASAGVIIST TDGFLFSWVI  
 PVLFLMIVLA LVVMKVLNLI FGALWRFTMT LRQGLYAGRE KISRDDAKRA RAEEKLTKQ  
 AKEAKKQRKL DAIYSAQQAE ETLAQQAQSE PEESDDKNRH DALNDAVAAA RN

> RXA01547 (1-663, translated) 221 residues  
 MFDQVKRFFV RNIVMIIALI LAVVVIIVAT STSADRHA VL KRQTGEIMAL QQERDALNSK  
 LEGQLEQVVR DATGGMDIEH KAADDAVRE FLSMALTWDS VRDYLDVREQ VMRVYDLDEE  
 SQFMSVFM PG EMAGIARTDP TGEVHYAYDA DLSNRFSSLE SVVTRINGTE YSYVSTVTMK  
 SKRSGGEAET TSTSRLAYDV IDGKIRNLEA RTVPGGVKYS G

> RXA01548 (1-1008, translated) 336 residues  
 MAENNGGSDD LKPISVDGVV NGEVRSDEK QAFEKITGDD LRRRAEQIRK RRLAKAQEDA  
 RKRKPLFGLG RIAVTVLAGA VFIGTTLWIS TTSGGFDDKV SANNEQIVTL RNEVNDLKNT  
 AETMPKKETL ASQFDAATSR AQNVADLQNG LAGIITSVDD DAATEQFKTI VDELKPKFTV  
 SAGTTGEFPA AGRWYQPQEV VVGDNRRPTW APMGAESWG W TVTPTLSMSD TEHVVMWWEA  
 RLTGGERYGA LLAWVTADYN INTGVFSSLA LAHTYEGHQR IGATTSPSEF GAHGTNAEAS  
 AARAGSEGGG LEGEAFVDE LQRALEIAQL NKQENR

>RXA01549 (1-861, translated) 287 residues  
 MVDNKNSSSN SPTAASEYFL REWERPADVA GNAPIRAEQ SKWYAQMGGW QKNSTLGESV  
 IAMADGAAAK STARDEQDAL NDCPEEDRTS GGNTSAAEAM VTISHPYLAD SRGNDGTDIY  
 RYIHDEVLTG DPYYASCDRG VATAIRWSGT DDTFPAGPTA AQYEVVGTG SGRWEEIGNL  
 ATMSENDLLP GDVLLGAPNH VAMYVSNEVV VDMLGPGNAE PNAAIGHASL NDRSPGLDLT  
 SLDGWGVNFK VFRNTQAETN SVFSGVQIPA GKEIGEMTNP TRTTPAG

> RXA01552 (1-978, translated) 326 residues  
 MYLG MKEDSL APPQNR FESH KTVFSLKQKN IPIKDAAKSD QVNLTWHDYP GEWFEGGAVT  
 DSEKQDKVET FRNLLGSDVA LFLVDGQKLH DYANEEERYL SYLFDGFIEN LNQIKDAILE  
 GGKQLQQFPR IWVIALSKAD LWPDLQVKDF ENLLNKKAGN EIIALRSKLL EFIDNDEAFS  
 FGKDFLLLS AKFTPGHIDI SQRKGVDVLL PLACVLPMQR HLWWQELKVL PINLADILLG  
 NEIAQMGMFKI VSKVLKNKVS GTNNKAMAAL VFAELVRDMV DQPTTELLQKA REEAVGRREF  
 LKAITAEFTR KLNQAEADQV LVRDFA

> RXA01554 (1-2142, translated) 714 residues  
 LKKHVTS AVT AVVTAFTAA LGLSIAVSPA VAQVANPAPD LSAPYTWVEE FDS DALKGW  
 NIFRQPDYGS DKVLYTEDAL SIEDGKLIT TQRHCVD EDF AISDPVNRGK LNDSTAQVEP  
 CAPGQFEKFT SARIVTPKIA RGEFDLSVTA TLNTGGVEGV R SAIWMQNGE QACSSATNNG  
 LYGELDLVEH FSYDLRSPWS PSNTHLGCDP ESNVTNRAP RELKLDESLD GVEHTWTVST  
 TRDGVEYFID DEAINRQSWR NDVTLGHA EI DDFGISAQTF DEIVDREWTL TLNQKVESAD  
 WAKPRSSEED FVPRSMVIDR IEVTGSPAVS EDTPMPDTTQ LLTQDTLEYL GRMPVLEREY  
 PASADFADGR RPSWNYFNK ESWQNPELEQ RPEAVEFVDG RMDIVTRRHC LATDDIATP  
 ENAQEEPCAP GEVTRYSSAR VHLPEIPAGN FRLTVRARAQ SEELVDGVRP AIWMQNNTNF  
 CADNDGRPYG ELDITEFYSS RVNTQYSAVH LGCAGNRPEM KLRQMEMEES MFGDWHWDGW  
 EVFDGQIVFT IDGKAVTSSG KDVFGNSVTP AAAPLRPAHF KLSEEEYREV IGQPWHLILN



TMVEQSGKDS WITAVDNNEA FPEHRFQIDH VAVDIESDSV DNVWPDAAANE IPDNVGIEDS  
DDGSDLEVGS TGSSTAETVS WISLFTALSS LVFTLALNQE ALQNLINQFM RQFK

> RXA01557 (1-816, translated) 272 residues  
VRSSNPVFSS LKETQRPQGO NPYGGYDNFG GVIYQONVAPQ KAERPMTVDD VITKTGITLA  
VIIVFALVTF GVWLVSPLGL MILTLVGAIG GFITVLVSTF GKKGSAAVT LIYAVFEGFL  
VGGISLLLSG FTVGNANAGG LIGQAVLGTI GVFIGMLFVY KTGAIKVTPK FNRILTGMV  
GVLVLVLGNV VWALFTGGAS PLRDGGIIAI IFSLFCIGLA AFSFLSDFDA ADRLVREGAP  
SKMAWGVALG LAVTLVWLYT EILRLLSYFQ NR

> RXA01560 (1-330, translated) 110 residues  
VGVSIIAGD EQLDMAEAVR KIGETFKTEE IILGGGGTLN WSMRLRDGLCD EVSIVMMPIA  
DGEKHTSLF EADEKYSAPL PIGFSLASVE PLEDGSVWMMR YGVNGPVDAN

> RXA01574 (1-1035, translated) 345 residues  
MSNKRIGVVI VSYGHEQDVA NLVDTFADQL KTGDRVVVVD NRKPWVLKDA VGERLEKHGA  
EIINHONGGF AAGCNVGAAG IVDDVDLLFF LNPDTVIDDP TLFNSLRRVD EQWAAFMPYL  
LLPDSTINSA GNALHISGLS WVTGLDEKPV EGSSEVTDIS IASGACLAVR VDWWKRLGGM  
EELYFMYHED TDFSARLLLA GGRIGLLHSA YVTHHYDYAK GDYKWIYIER NRHVLLLSVL  
PLPLLFVLIP QILGVNLGLW AIAAKEKRVG LKVKSLRLLI RDLPAIFKLR RSTQELAEIT  
PSQYLAKMEW RLDNPNLGNL GSNKIVATGY KTYKLCMSI LKLLA

> RXA01575 (1-1020, translated) 340 residues  
MKSIDLEQLA GTQSRTYQSR KITDEMVARP VHVAIALWEV PWESAKSGKI EGWVIAVDSP  
RGRFVRSGQT KNGDAVNRTV SMLKSALKGV RGKAWIVTGR RQALRAALV RENYLVGTGSF  
AEQNRAVKA SAISRRAEQS ALYKAKKIGE FAERAPRVKE RQEAHWWPRL SRTQGTAGVL  
RLATDASTDG VFRGAMCFVA SNGDYLLLETQ DTTASSDELE LESITHALIY LKTIGATQAI  
IESDSKAAL AIDFILNNRP RRGRWRGITA CARNRFRDAW EALIDDCVVE LSRVLGHAGD  
PLNQAADQIA YMGMRVIFE QKSAHPTLLK GIDKALRKAE

> RXA01577 (1-375, translated) 125 residues  
MTQTTTQIII QILLLLATAA LALYFLNRNR KARAKAWVKI GFVVFIFAAV WAVLRPDDLT  
QLANFVGVDG GTDLMYALV VAFMFTTLSS YVRFREQELR YSKLARAVAL QNVVLPEDSQ  
GSDPA

> RXA01579 (1-384, translated) 128 residues  
LTEVFNTDQR VLNALFNVVE EDDSGDTEDE QHNHQNPNVRG TEFAGLVESH EQRSNGHRQW  
QHTKPVHLRG FFSGGFLHAE RQCEGSDSAE SSHDPEDGTE TKCFSPATS KRVHAADTTV  
DRGNNSK

> RXA01585 (1-627, translated) 209 residues  
VVETLSITSG AAGLQALVAR AVGLNELASA RFRQLTPEVV DVFVTPFNV TASRRVFGVA  
GRDGAAGVAK DLLQALSEGR EDVGTSRDAS WPGSLPPATG FTLVDELPH VVRTLADQGG  
ALARQFSGPL GPPASLMDQE VISAENGKK AGIPMRTVFT CTSGLGLPGF EAANDVPRHL  
RVSVNGRWTR VDAPYGSVYH SSGGLSLVF

> RXA01586 (1-369, translated) 123 residues  
NNAAFIEIAQ EARLAFADQ FRERGYEIPA VFVRHLEVY LRAILPDTTQ AVVETQVTKI  
GNTSFSTRQE VKDRNGRVCC VVECVQAVN VQTAAPRSIS KVERKVLTA ATDEVQSQEA  
LEK

> RXA01587 (1-1983, translated) 661 residues  
MTDFEGLIYN WSVTVGWLIG IPVSIGLFMM GALMFRMDK GSAFKKVIR VVYGVVGLPL  
LGVSYTGALD SFLDSGSSTS AGSNATKIVL STYVDFQSWA ENTRMRVPDK VTLAWSLEDQ  
APTQSMRMV RNSALEINAQ SNESFTTFKN PGSMDLGYM DWMEKMADPA NSGTDGTSSS  
SATTIFQGTI ALLSRYIDND SISSGSFETS IRSAMESLTS KEGSGEAVAG GDVMAWVTGY  
NTASGLNEIT AAELADANNP LLEVSDSAGL QGRPDRNAV SFKSGDATAS CNNSVVTGSR  
AVVGDYRSDC NMSPLTMYNF LNTSFHPADA SVFSTSTSAS SYTRASHSAV SLIGSGAMNF  
VYWFSAAMSLM GSFIVIGIGY AGAMLFNTIR RTLSLIGAVP FAAMGFIAGV AKVIVYTAM  
LVEVIGTIIL YQLITRFLMA VPALFEQPLA DSLSSNESAE LVAGAGMGLV GMALATSGNW  
AIAGMVITVA SSMGVIIFTI IAMKVRGSLV SGVDETVTSV INRFLDTQVS SAGATSGDGM

MRRAAATGLG IGATHMVLNR DGDGGGSDSG SGGSGGGSDS GLGEKAAGLA KVVTTVAGAG  
LVGKYATDAL DNYADGVING DGDGAFAAGG DATVDGDYVA DGDALIASADA NADFVDGVAD  
G

> RXA01590 (1-1284, translated) 428 residues

GKLKEYATYI GADPAQGFKD VGQPTPEALR SHYEGSQKAT AIKVLFTGVA GKKEQEMVAL  
CRNLGLTKEA MAASAPAAQS ILQAKHDPID ALYRAETLMG PVGDLYQGRK MRRGENEQGR  
YEWEVVRDEN HQPIQATKDE WVQQYMEMYA DDKGMGVSVG VDQVEKIAEE FSDEQGYMRV  
LSHDELPTTEI KPLALDQLAY GDKKNRFDLL CEMAKQQVNI YDGDAYDEFAP RVVRANMKAM  
EDAARFGIPD VEIQSISAQQ SLASFERSVPQ RSGFRIERRV PAEVTGTIAA PAPLPDAGVQ  
GNYVQQQVPA TPPVMPVTPP AQQPVSPAQT DFRGVGQPLD QGGKIGNYGH QGPAMGAQQP  
VVPQQQNIPP VHNVPVPQNSV PPTPVVPKPG TGNPFTHGGA NNQFMGRFDT SRYNQEQEPPQ  
RQDGGFEL

> RXA01592 (1-1293, translated) 431 residues

NFDRSRDNR SSARTPRGDR GDRGGYRNSR GNDDRGNRYRQ NRDGESRDRG GYLGDRRDNR  
SGEYRQRDDR RDDRRDNRSD DRRGGYRSDR NFDDRNSNMR DRRGGDRSY SRNDRSDRGY  
RSNDRYDRND RRDDNRDTRG GDRGDRRYDR RDDRRDDDR DRRGGQGGQR PGGDRRHANR  
AGAGRDQQRD SLHPQIRAGFR EERLNTRLNE PDLPGDIDIK DLDPLVLQDL KVLKSKDNADA  
VAKHMIMAAT WLADDPQLAL RHARAAKDRA GRVSVVRETN GIAAYHAGEW KEALSELRAA  
RRMSGGPGLI AVMACDCERGL GRPEKAIELA REEDLSSLDQ DNLIELAIVV AGARHDLGQH  
DSAIVELQKV NPSSLKSTGFT HSRLSYAYAD ALVLAGRGDE AREWFQHAAT LDEDGYLDAE  
ERIEQLDNGN N

> RXA01595 (1-960, translated) 320 residues

MTAPTNAAGEL RRVLLVPHTG RSSNIESAIL AAKLLDDAGI DVRVLINDAD DPIAEHSVLG  
RFTHVRHAAD AADGAELVLV LGGDGTFLRA ADMAHAVDLP VLGINLGHVG FLAEWESDSL  
EEALKRVIDR DYRIEDRMTL TVVVLDDGGGE EIGRGWALNE VSIENLNRRG VLDATLEVDA  
RPVASFGCDG VLISTPTGST AYAFSAGGPV LWPELDAILV VPNNAHALFT KPLVVSPPKST  
VAVESNSDTS AAMAVMDGFR PIPMPGSRV EVTRGERPVR WVRDSSPFT DRLVSKLRLP  
VTGWRGPQKQ AENKDPRSAG

> RXA01597 (1-1182, translated) 394 residues

MSLFNRKADL PGLQGATRIC TPQKGKGLRL SEGDLAIIA PDLSTRTFAQR LLAAPAAVL  
NVSRTFTGSV PNFGPQMLID GGIQLVEGFG QELLDGTKDG KKGRLTEDGQ LFYGERLISN  
GSVLSGPAAE NAFADAQSL LDRMEAYFGN TIQFIHSEAP LLIDGLGIPD TGNAIEGRKV  
LIASPGDNHR SRLKELRSFI REYDPVLIGV DGAADTLVEL GYKPALIVGN PTGIGADALR  
SGANVILPAD PDGHAVGLER IQDLGIGAMT FPSSVNSSTD LALLLADFHN PQMIVNVGGP  
VTLDGVFFENR ESDSPAALLT RAKLGTKLVD GSVIASLYTV RSSSNLGMW ALLAILVVLA  
VVIVIAGTAG SGSFTDNLID TWNSFALTVO GWFK

> RXA01598 (1-963, translated) 321 residues

MAKRRRGAA TFAALGFGAA AGIAFGTYVL APNLPENIDP NAPTSALVE AETLAEVNAV  
QADQADSIID HIVEDVAGT LTDRPVLVLR TADAESDVA DVSWLLQQAG AINAGSITLE  
ENFFSQDGAD QLKSIANTL PAGAQLSETQ LDPGTHAGEA LGAALLLNPE TGEPLASTAE  
RGLLLNVLRD NGYISYEDGT ILPGQVIVMI TGDSGSGDG AFAAETQSLF ARALDAQSGG  
VVVAGRIHTA ADTGVIGRLR ANPDAAENVS TIDSVNRTWG KMATVLSVRE ELAGRSGAFG  
SAASADAASP SLDGTAAAPA Q

> RXA01600 (1-669, translated) 223 residues

MVSKMHIPGT HEFTVTDTEL LLESPILGVR RDSLIMPGGS TARREVEHF GAVAVVAFDG  
ENIAMVQYR RSVGDSLWEL PAGLLDIADE DELTGAQREL MEEAGLEASE WSVLTDLITS  
PGFCDEAVRV FLARGLTKVE RPKVMGDEEA DMINQWVPLH EAVGMVFSGQ LVNSIAIAGV  
MAADAVIAGR ASARAVTAPF TYRPTALAQK RKAHGIVPDM KKL

> RXA01602 (1-1530, translated) 510 residues

MAKTHIRLQD LSLSYTSTPL ITKLNITVSS GQCAVIVGEN GRGKTTLLRA LAREFPSPAG  
EILTHGTVAI AHQHMPAGDL SVGEICDEAI RDSKNALEEL ERAGALLETN TAHALDGYQQ  
ALDAAEVLDA WNAEHRLEKA LRSFGAITDR SRALSELSIG QRYRVRACL IGGDADILL  
DEPTNHLDRG ALNYLTEAIT SHKGVVLVVS HDQALIKDVA DFIIDIDSTP DGLPRIYHEG  
FDSYRRQRSA LLETWRQDYA AAQTVQQQLQ EDLEHARQV NSSWKPPKGT GKHTRASRAP

GVVQALKRAQ DALDSKALDV PPAPAPLLLLP TLKVRPDKPM VDFSDFVPH RLRLPGSHSV  
VSGDKIVITG DNGAGKSTLI EVLSGVLTPA SGSVANHART GVLGQESLVG EVPSIARDHA  
VKWGLLSVEE SRFALQEFSE GQRRRLDLAM SLAGNPELLL LDEPSNHLSM HLVSALTEWL  
DTTAAAVIMV THDRQLLRDT AHRHRIELKS

> RXA01605 (1-1515, translated) 505 residues

VTSDSPAPAT VNAVFNNNSNG FIASMLGNQV VNTVVETMDT EFGVRIVDNM LVGFSTLGDG  
MNQAAEGATT LSDGVGSAND GAVQLADGAV TLRDGIASAN EGAQSLADGA SQLDTGLGSA  
ATGSQTLADG LSSLSAGTAQ LGQGATQVSD GVGQLVDQVA PLTAYVPDIN SGLITLRDGA  
ATIASELSDP SSTYRSGVDS AVSASQQLAA GLQTLKDGSS QLSIGARTLA DGTSQLAAGS  
EQLVVGAAAL RDGTQVLDG SSELALKLTD GASQVPTFAD GADTTIATPV ETEQAGDTTP  
LFGIGLAPFF MAVGLFMGAT VAWMILHPIS RRALDSRMGG FRGTLASYLP STVLGLGQAT  
IMWAVLYFLL DLNPAHPAGL WMAMVAISWV FISITHMFNN VAGPSAGRVL SIVMMSFQLV  
SSGGLYPPET QPAFFHWFHT YDPITYAVNL VRQMIFNETP SNDPRFIQAI WVLLFIWALM  
LAISTLANRT NKVLRMKDYH PELKV

> RXA01610 (1-729, translated) 243 residues

VSGFLTPPAT PHIRTATASI ATAVAVALS SVFAAALIPGSA LYSVLTAGGV ALGAASGVAA  
LRHRGGLRIF QWLSALGGIV ILLIGIVVAV AKFGASAKLA TLGLVTSYYL MPSAALACYI  
GGLGQLPAKW IAPAFMATAG AGAAGWFSLG AGTGFERFLI AVAAVFSLMG CVYPVWGCVV  
KRPRQVAAWL VALAALVLGA LMLFMVSMVV APGLLWLQPT TVAWGFMIAG VLATVAGLWP  
RRF

> RXA01611 (1-357, translated) 119 residues

MRKFRNTAIA LVSAAAITLG GVTAATAQED ETPFAAETET TSPSGSSGSS WNDYNEEYEG  
DQEGYGIDGF GSSRDDSGEE VPRWLETWGK VFDALTITSV LGLVFPVFN FLKYNGLIK

> RXA01612 (1-345, translated) 115 residues

MRSFRTAAVA GLTAVALS SVSATVATAEES DQNLSSGFSA LSSGGAAAVG EDWDADQPV  
GEDIFGEEHE RDNENTPAWA KNMYDLTVLG GIASLLGVIV FPAYNYLVYT GVIK

> RXA01618 (1-384, translated) 128 residues

MIIIGAVFAI LAVLLHVFIF YMESFAWTSE KARGVFGTTE IDAENTKEMA YNQGFIYFFL  
AVIAGVGVAF LFAGSTGIGA ALALAGTGSM LAAAVALALS SPDKRGAFAK QGTFFLLAVV  
FLVIGLLV

> RXA01619 (1-975, translated) 325 residues

MRAITHNTFG DPADVQLITE KEIPTPGPGQ VRIQVTLATI HNHDLWTVKG SYGFVPDLPA  
AAGTEAVGIV DALGEGVEGL QVGQRVASGT SFGIWAAYAL VDASGLIPVP EQLSDESAAQ  
LVAMPFSAIS LLDFLDMKPG EWLIQNSANG AVGRMLAQLA ESRGIHVVL VRRDAGVQEL  
AAQNISGVVS TETPGWEKQV EDITGGASIA VALDSVGGSS AADLVKLLGE GGTLVSFGAM  
GNPIMEIPSG PVIFKHITVK GFWGSKVSRE MPAEKKTQLF GELIARILDG TLTLVPVDSTF  
DAADIVSAVR ASSEPGRAGK VLIRF

> RXA01622 (1-603, translated) 201 residues

MSDFYADRLF NAMERNEVAP GMLLVAAPDM ASEDERSIV LIIEHSPATT FGVNISSRSD  
VAVANVLPEW VDLTSKPQAL YIGGPLSQQA VVGLGVTKPG VDIENSTSFN KLANRLVHVD  
LRSAPEDVAD DLEGMRFFAG YAEWAPGQLN EEIEQGDWV TPALPSDIIA PGRVDIWDV  
MRRQAMPLPL YSTFPSDPSD N

> RXA01623 (1-711, translated) 237 residues

MSSSENKKEIR GGIGETLTG LGLIPLGLAF GLLMVQTGFA WWWTPIFS FV IYAGSMEFLA  
IGMVTAGIGP FSAAVAGFMV NFRHIFYGLT FPRHRIKSGA GRAYSTYALT DESYAIVSAR  
PPGDISGTRV LTVQILCQAL WVIPGIIGAL VGQVLPDDLK GMDFALTALF VVLAWEAFAKN  
NKDYSPLPLFA VVLALVSGFV APEQMLVIAL TTYFLILLR VRFPNLDKKL EIRTSHE

> RXA01624 (1-345, translated) 115 residues

MSEFGLPEGV TLLNVAVLI PIAIITLLLR IFPFAAMKRV NSNQLMGVLG RTMPVGMVMV  
LVIYTLFGQV SAPGGVGASL IAVAFTALLH WLKGSAGLSI VGGTLAYMFL VNVVF

> RXA01627 (1-495, translated) 165 residues

RTYSPSLKDY NSDEPSLLGP AEDPNMYQEF EVSYEQLGK PEGRTLIGDS FSADFLTSNE  
IGIVDEVPSG TIAFTNWKDV TEGRHSWYVR SEDPFGGVEI SPVQSFIAGE EAGGNAPGTG  
SSNGGSSHGL WGALAEFFAG AAALAGAAIA FVPGIWDYVT NAFKR

> RXA01628 (1-1014, translated) 338 residues

LVLVGCNTA ESTTTDTAGS TETSSQISPT TPVSTTEAAP PEDPSANALE EYAQILANPS  
IYPLTEISQF VPTGTAYATL VEATSDSIPE LLLRADSHF APILVFYDE NTQSATQAGG  
VLIDGVASAG GSRVKVRASN SGAGIYQLNW YSIQPVGESS LYGIQGNLSL QIADPEDFMV  
RELLPDHHEI TWVDSNDPSG LSTVQTGGAN IQQAAPTVPQ QPASNLHYFS GVVMTQTAGE  
LMRGERTPNG EPATDLYLVL VLDSPIEITA RNAATDPQTR TISEVSLGRY IPADGDNDWI  
GYLDTHVEIT ATTDQVWFPT DTGLPLGMLR LADYKSIS

> RXA01630 (1-1077, translated) 359 residues

MSDQKIVVGL LGITHPHASA RVRALREIDG VEVVAAADTD SRLQYFTDKY DVEPREIDDV  
LNDDRINAIM VHKSCKDMVP HAKRALAAGK SVVVEKPGGG TVADLEELLA LKEAADPQRI  
VQVGYNVRLS ESVQRLKELL DAGLIGEVVS VQARGAAKVG EHTEHLNQP ADMGGVLWIL  
GCHMLDALVE VFGAPESVNA RVHKTAKLSD DTSREDSASA LLYYPDFSVS FSDGDHDDLE  
WFESSRLTVY GTKGMIEAGI LPQTLRVYLN ESRQGWPGGW TEWTQSYFTP PFARTESNKF  
SELPELENIS NFRTEMQGWV NSIRTGSRNV APVEDALTVA RIVSACYESD NNQGISVNI

> RXA01634 (1-552, translated) 184 residues

MAVGQETDLL NAMETLAGVP SDLVVTEILP DTTSYDNFEF FEVHNTGSAP VTIGEGETTF  
AYSFDDSDT SRDKALDLGG EVTVDAGETI VVWIEYSSST VDTAAFSEQD FRDFYGMDS  
ARIFRATGQA GLANGGDRGI RVLNGEVSG WSHYPSDSAA VQKGIDFALP KVGEQASIAS  
AHQN

> RXA01635 (1-741, translated) 247 residues

LIPGGDLTPE EPEAPEDSLF EGRTPPRDAS TRLILTELMV NSTNMGSSDG FEYVEITNTT  
AEPIDFSDYT LNYLYPQDEF TNTNEAVWAA EPGDVIIQPG KSLVFWIKNG PNDEATAADF  
NAEYGTNLEA GKDLVEISSG GMANGTARGM QIQNTNGHIV NRGFYNMAGA SDVKANEGHL  
FAVDESLLK QTLVGSGAPT PGTVYTSQIP NPLSAVIADS SVPLITDNTA TSINPAEPFT  
FAFKYHR

> RXA01636 (1-573, translated) 191 residues

VRTATLHVTS SAGEAATTIN LTEDDGSFNW ALPAADLTGK SWFEYTVTAT DGFNSVTTEP  
VRVTVDGANT DPLRLNLEEN QWVSGTTDVI GASDVFGDKL ELLIDDAPAV TNSSLSAAPT  
FAMEVTQTDV FFRNGILAGG EELRIFDQGT YANTETISTP VPLYHINEDG TLTVSUYAGT  
KAAPEIDLNE N

> RXA01638 (1-390, translated) 130 residues

VLVTEDLLIE APFGFEMRSD EQSRYLEGPD PNLRIHVGVD PLHGADAALV AEELRRRLITE  
DPSLEEIPAG EWGEKTTIDY RETPGDGS HV LWVTWFDTR QLVNGCHSKA AETLVHKAQC  
RNVIEHLTLK

> RXA01639 (1-438, translated) 146 residues

MSTQTITITV LETATIFDGP ETIYRYDLAA EGILDGWAHS AVLDQVKQIA GENWPTVEIV  
VDGTDNVVNA LTSMFASKGV TCGGVGVEAP PVAEEPPKIK RPTSGKQVRQ FYGIKPLHLL  
LVSILVGSIA GIWGRVSLG QWTHGR

> RXA01641 (1-1371, translated) 457 residues

LAIDNALRVS IRIDLTVGDA PAAVADVALP AGSSLADILD EILELTDAPR ISRPWVAHTA  
AGSPIDCGIP LAETQVEQGS VVVLSPERDL EAPVLRDVAE ALVEFSSTNR AGHLVELMTF  
AGLIGAAVLM TSPAASGIIV PGRMGIFVAI CALLLLWLPP AHTPILRNVL PITLILGAGG  
AVSVLVAGTS GTSPGALTWT IFAGACTILA SLLVHVYR PAILLVATLS TLGLGLLVLA  
ATTLWLKLA TEDFS GPAI TVTASTITMC FAPKIAASLA GLRVPSLPTA GEDLSVSDLT  
MTDPEKRIKT TKTLFDAQIL GLGVLSGPLA LLSVTPGTWT TTVFSLCIAV ASLLHANRHQ  
APIPTWTLMG LSALGFISMA LSASRSGSLI ALIGSVVIA VLVSVLWIS TVPTLEPTTI  
VWLERLES LC LAASLPLALH LLDVFGMLRG LDIGFGG

> RXA01642 (1-1242, translated) 414 residues

MRRLIAVSLA ALFMLASTPA TRAQEVEALA CPEVAIADPS SAVLDEHLSQ SLSQAHQLAT

GAGVMVAVID TGVSLHPRLP HLIPGGDFVG AHQSPDVPGE LIDCDGHGTI VAGIIASQGN  
PGTGWPYDGS SDPYIGVAPD SGIISIKQTS SYVRTREDSN VGTLSTLAES IHRALDSGAH  
VINISVVVSL PQSPDEAASF QPLTDALNRA ELQGVIVVAA AGNLGQDCPV GSTVYPAHSD  
TVLSVVSARFD SHTLAEYSMP GNQQILSAPS HIQAGLSPRG DGFASHMITT AGESPFEGTS  
FAAPVVVSATA ALLRQHFPFA TPYEIRARIF NSIDPARGAI DPYLALTQEI YPTTPLVHEI  
ALSVPTPPDD SPRERGILVT AIIVGLLAVL AVLMGLRRIH HHSAFQKASS SVIT

> RXA01643 (1-426, translated) 142 residues

MGTMREMVSD RIDRLQEAHA RSKQKKFGFL VRPGTLILGW LVTIIGLITI PLPGQGWLTT  
FIGVGILSLE LKWAKNLLAW GVHQYDRFFT WYGKKSFRFR MAMLALMILL IWVVFIVTFW  
LMWHAGTIPW ADEFFTWLGL SR

> RXA01645 (1-606, translated) 202 residues

VVRKLWPRDL LRSSFYWKII GWDRKYSIAD RLEERKGRPA RERVVQDVEV TIDKLPEFLK  
WFFESSDIEP LWLCPIKLRE VPGSSVGAGE ILSSAEIDS GAAEHPWPLY PLKKDVLWVN  
IGFWSSVPVD LMGSDAPEGA FNREIERVMA ELGGHKSLSY EAFYTREDFE KLYGGTIPAL  
LKKQWDPHSR FPGLYEKTVK GA

> RXA01646 (1-819, translated) 273 residues

MSGLVDPDST FLKTIGKLSN SLSIGRGVDQ KEVIPKGWNA HWEAITKLKR SFDAIPAGER  
VRLAKKTSNL FRGRSDAGHG LDVAALGGVI AIDPVNATAD VQGMCTYEDL VDATLSYGLM  
PLVVPQLKTI TLGGAVTGMG VESTSFRNGL PHESVLEMDI FTGTGEIVTC SPTENVDLR  
GFPNSYGS LG YAVRLKIELE PVQDYVQLRH VRFNDLES LT KAIEEVASSL EFDNQPVVDYL  
DGVVFSPTFA YLVLGTQTSQ PGPTS DYTRD LSY

> RXA01647 (1-888, translated) 296 residues

MPRGVPVGV DAPGLFSSTE EPEQDWFVCQ DVGTGDLHIT VPRGGLGPTL IAEGNGWLGA  
SKSETGEV TW NLITADGRRE LPAWGSEHGR IMRRHLGISE DTPRVYLTTE LLNAIPEHDA  
VRFPAPLPEL VDASTRNWLRL LDGALAEITP LQRGLLIDAG SGVFPDPTAL LGVHEETANT  
LTLPEQTVSW QDLDDGGFACA DGEGQIGFLE TLESGVALSG DSRAKSFSTN AGGAVGVDSG  
FGYYVVSDFG LMHPVSTGES MVALGITDVQ VVPWSVLRL L PQGSELAKET ALAPTY

> RXA01656 (1-897, translated) 299 residues

MTETQETYQA TTRVKRGLAD MLKGGVIMDV VTPEQARIAE DAGASAVMAL ERVPADIRSQ  
GGVARMSDPD LIEGIVNAVS IPVMAKARIG HFVEAQVLEA LGVDFIDESE VLSPADYTHH  
INKWKFDVPF VCGATNLGEA LRRITEGAAM IRSKGEAGTG DVSEAVRHLR TIRGDINRLR  
SLDEDELFAV AKEFQAPYDL VREVASTGKL PVVTFVAGGV ATPADAALVR QMGAEGVFVG  
SGIFKSGNPA ARAAAIVKAA TLFDDPSVIA DVSRGLGEAM VGINVSDVPA PHRLAERGW

> RXA01658 (1-1485, translated) 495 residues

DPQILSPTFT QQQQLRNFGY FPDQLAMDRF EVDGKLRDFV VAARELDPNA LQQNQDWIN  
RHTVYTHGNG FIAAQANQVD EVARDVGSTR GGYPVYTVSD LQSNARAAES EDAEELGIKV  
DEPRVYGGPL IASATDGADY AIVGDTGDGP VEYD TDTSSY TYEGAGGVDI GNMVNRAMFA  
LRYQEMNMLL SDRVGSESKI LFERDPRSRV EKVAPWLTTD SKTYPTVIDG RIKWIVDGYT  
TLDSL PYSTR TSLTEATQDA VMPDGTPOPL ITDRVGYIRN SVKAVV DAYD GTVELYEFDT  
EDPVLKAWRG VFPD TVKDG EISDELRAHL RYPEDLFKVQ RDMLAKYNVD DSGTFF TND A  
FWSVPGDPTA AEGRQELKQP PYYVVAADPE TGESSFQLIT PFRGLQREYL SAHMSASSDP  
VTYGEITVRV LPTDSVTQGP KQAQDAMMSS DQVAQDQTLW RGSNDLHNGN LLTLPVGGGE  
ILYVEPIYSQ RKDQA

> RXA01659 (1-486, translated) 162 residues

PEAVTAVWME SDWVLAETIK GSTPSDWEEI LRPLALLTDA SFTLPPRSTR AQTLDLKHLE  
PSRLKPEQPE KPAFTPNASE EDLSQPLVIR PEEPLQMPVR GVQESRGVVE PRSLGADDVE  
SIAEGDPERP SDLYGTRVLR DLNGQSSIFQ DSTDADEPPK KW

> RXA01663 (1-435, translated) 145 residues

MEISVLIIAA LILVAGIVLW RADSSKQAAK KAESPVGSA PAPVLVEEEP DPEFEPELDP  
EPEAQPEPEL EVAPRFAPEP VQDLEPDQAE DIYFDDSP EL DADVENALAE LTEVEDYPEE  
PVQSEQPQAP ATAEVAADDEE QRGVD

> RXA01665 (1-720, translated) 240 residues

VKIDELIALA AEQPTRISRR SGVSRSTLKR VGDGTSEPTL STLREVALAL GLDIKVAHH  
ACDPFAAAAA RTLDIASVPE NPHNQEILAW LHRFERWNIN DPLTLVSEAG TLQGITHRQD  
AQFVKLNPRG IAEPELFQO HKTKWALSGA AAATVIMQOI VLGNSIVWHE PAHDLVDSAL  
GTIVDVAEDA DLILLPATVT ELVGSYTQDR LNFVAPVQLV IDLHSLHMF EADYLTSGWR

> RXA01669 (1-732, translated) 244 residues  
HNLSDALTAI PLWIAFILSR RAATQKYTYG FNRAEDLAGL FIVAMIALSA IVAAWQAIDR  
MINPRPMENI EWVIAAGVIG FLGNEAVAMY RIRVGKRIGS AALVADGVHA RTDGFSLAV  
VAGGVGVFLG FPLADPIIGL IISAMIAITLL VGTIRSVGRR LMDGIEPELV EKATHAIWHV  
KEFESIDRLR LRWVGHRHLG DATVSTSTSS LSEATAIALE AELSVKQHLP NVDEMTVTIT  
PSKP

> RXA01671 (1-615, translated) 205 residues  
MNHVVNFASH LEDAALKQAE ATATMPFIYP HVALMPDAH FGLSSVGTVF GTKGAIIPAA  
VGVDIGCGMI GVCTNYTASD LEGRDLVTLR DYIERVIPLS PGNYNSTTLK ETAKVKVAEL  
EELAERDGV D LSHSPTWKRO LGSLLGGNH F IELCLDELDR VWMFLHSGSR GVGNKIAHKH  
IKNAQAQCKN EELPKDLAY LDRGD

> RXA01672 (1-309, translated) 103 residues  
SPLATFRVAL AMSIIGLVAV IICVTVLYFG LNVAGVWQNF NDVIGGVGAE QTITFGLVLS  
ISALLGAIGA ITVAVLAPLC AIIYNSIVDL FGGLQIQLOE EV D

> RXA01673 (1-1035, translated) 345 residues  
MSTNLESTP PFTQLRTGVL QKYTPGLLLC SIAVLIAMIV NHFFSGVSPL IVAIILGIIL  
TNLIQLPAST SPGITLASKK LLRLGIVFLG LQLVFS DILS LGFPM LAVIV CIVAGGIFGT  
ILMGHLLRMK PTQVLLIACG FSICGAAAVA GVEGVT DSEE EEVVTAV ALV VIFGTLMI PF  
IPFATKVLGL SPEIGGMWAG GSIHEIAQV V AAGGVIGGGA LGVAVVVKLA RVLLAPIAA  
ILSFRQRRQG YTS PDGKRPP VVPLFILGFL AMVVL RSTVA LPDEVIAAGG FLQTALLSAA  
MFGLGCGVKI QNLIHVGVPK FILAFGSTTL VTSIALAGTL LTHLG

> RXA01675 (1-411, translated) 137 residues  
MNEIPEWLT L VSVEAGKRLG RPGPLVFPPE LVTLAVEGIE LIELEPSWTS DLPLPEFGFL  
AADMVDFYDD YEFSEWIPGA WPLALDGGGG FFCLDLRAAN ADGEIPVVWV HASNLGWGDD  
EAVRVAASLA DLLSPSK

> RXA01676 (1-756, translated) 252 residues  
MILHGVVFYA GLLVLLVPLG LGAGILGELF ITQRQTIIVV SSIVLIILGF VQIFGGGFDF  
GKALPGLDRL QSKATVTSG L GKSFLLGMTS SIAGFCSGPI LGAVLT LAAT SGNSITSALI  
LSAYGAGMVL PLMAIAALWA KLGQRGQOML RGREFTFLGR QWHIVSVISG ALIIAVGILF  
WSTNGLVSM P ELVPMDTQIW LQEATFSLGS PLFDIALIIV AAGLFLYFVN KRQKRKEEAQ  
RPKESGWVIN PR

> RXA01677 (1-744, translated) 248 residues  
VNQQSKKWL V PTLVVIIAVL LIAVVLLMYR GNASDTAEGV SAAATSDSAA ASTAASGSAS  
GAADSDLT SV EARDPSDPVA VGDVDAPVGL VVFS DYQCPF CAKWSDETL P QMMKHVEDGN  
LRIEWREVNI FGEPSE RGA AAYAAGLQDA YLEYHNALFA NGEKPSDDL SEEGLIKLAG  
DLGLDESKFT ADFQSPETAV AIAQHQQ LGI DLGAYSTPAF LLGGQPIMGA QPASVFEEAF  
EQALAAKE

> RXA01681 (1-633, translated) 211 residues  
VEVLLLIAIV VGGGVFVASK MGSNNNKKQE EAKFADAQAD ARRWIERLGS QVLTIAGTDA  
ASTQAIADAS ERYTAASSQI SSATTPRQAE LARESALEGL HYMNAAAREIM GMTAGPELPP  
LEGQRNAGRV TEKRTIEQEG RQITASPVAT DETPNYYPGG NVAGRPVPAG WYSEPWWASA  
LRSLWTAGS VMMFSAMFNG MAGVGYSAAD L

> RXA01685 (1-579, translated) 193 residues  
MSFAIGITVH AGLGTTTTISS LPVVWTAASG LSLGWTTIYF NGFMILCQII VLRSQFKPQM  
LVQILWAF LF GFLCDLSLQL TTWAQTDNYF VAWI WVIVST ILSIGVFIQ VLPNITFIAG  
EGIVSALVKK FPNVEFGTMK QIVDWTFVSV AAILSWITMG GLIGVREGTV FAAFFIGFFV  
RQWRKLYLRS IGH

> RXA01686 (1-441, translated) 147 residues  
MTSLRDLLVS TNADAAIADM SAFIEETVGK QSGISGIALK GAMGAATKID SDIVAKGSRR  
LLPEIADSLD GLWQEYQNGG TAADFGAHLE ANSSTALDAI LSVADKNAES INVPGGLGKVY  
KGVRGKAAKV IEQELPAIGQ LIEKNAQ

> RXA01693 (1-1422, translated) 474 residues  
MNTAPFKLEA DFASALPTMA APWQGEEAPN PELVILNDDL AYSLGLDPTW LRTPEGVQFL  
LGLNPEPLTK AVAQAYSGHQ FGQFVASLGD GRALLLGEAR SADGVLHDIH LKSGSRTQFS  
RGADGRAVLG PVLREYIISE AMHALGVETT RSLAVISTGR KIQRGSVAPG AVLVRVATSL  
IRVGSFQYSN ISGGIELSQH LANYTITRHF PSLVAELSAP TPATYVSLFK AILQRQADTV  
GKWTRLGFVH GALNTDNTLI SGETVDYGPC AFMERYRGDA KFSSIDTYGR YKFENQPMIL  
GWNMARLVET LLPLLGATPD EGMTAAQEAL VEFDDLCEQA IRKEFATALG LDESDTGTVE  
QFRELLYLHN PDITTLRAL TDNTAPPSGF EAFVHDWKTQ DPDIEAMRAV NPLFIPRNLH  
VEAALADAVE GNLEKFHELL AAVTNPFDPD AGPDELRLPS EEGFEEDYMT FCGT

> RXA01694 (1-900, translated) 300 residues  
MQKITPNIWC QGTAEAAEF YVNAFSEFPG GAEVLTTVKY PEAGLLDFQE PFAGKTLTVE  
LAISGFKIIL INAGEEFTPN PSISFMVNFED AVRDENAKEH LDAVWEKLHE GGSTLMPVDT  
YPFSEYYGWV QDKYGVSWQL MLSPREEKPG PAVIPTLLFG GAAQNQAGPA QENYVEVFPN  
SQLGDRAPYG QQTGPATPEA LMFSQFQLDG QWIFAMDSGV EQDFTFSEGV SLMYEAHQE  
ELDAIWNALS AVPEAEACGW LKDKFGVSWQ IVPDNMEELM AKPGAYEKLL AMKKINIAEF

> RXA01696 (1-597, translated) 199 residues  
HSDPVLMEVA YRQLAEQSDY PLHLGVTEAG PKFMGTIKSS VAFGALLSQG IGDITRVSL  
ADPVEEIKVG DQILQSLNLR PRKLEIVSCP SCGRAQVDVY SLAEVTEAL DGMEVPLRVA  
VMGCVVNGPG EARDADLGVA SGNGKGQIFV KGEVIKTVPE SQIVETLIEE AMRIAEMDP  
EVLAAASASG MKAEVKVT

> RXA01697 (1-726, translated) 242 residues  
MFQGLKELTA AKGRTLLITV TVGLIAVLVT FLSALTAGLG HQSVSALKYL AGDNELILAD  
SGSTTLSAST LSDQAVAQLE DEGAQMLWQV RDRVADTPM LLNSPDLAPG EVSLPAELAD  
SELATAHDVV DSSNDLYLDH LPVVLMTSD LASLAQVRGV TGPAGAFASD VALPSDTVAL  
SGSERWNASA SYQGEQMSLN LMIVMLYVIS ALVLGAFFTV WTIQRLRGIA ISSALGAARR  
VL

> RXA01701 (1-333, translated) 111 residues  
MLSHEEIVAI AEDLLSKRYG GVQTLSDVEQ LNGSGTSAVL RARVANSFPL QQRSVVLKYV  
PSTGDFVDDS ALVREIVSYQ FTTSLSEDVR PGPVILAYDI DKRILVISDS G

> RXA01703 (1-471, translated) 157 residues  
LKYFAHIHAV VQAVSRKMTN FHGVIDWDTG DGDGGLFKGI LVRYLADVAI RLPDDSPTNR  
ETKKIAARLV LESAESVWNH RLEVDGLPVF ATDWTTDARL PQNFGLSSSS LSDLVSVVRV  
DERDSLVSQLS GWMLMEAAK VAELENNGN SYTGRSR

> RXA01709 (1-330, translated) 110 residues  
MRSGVDMILN ETGGEKMLAQ ADLVITGEGR IDAQTLGKA PTGIAKRARA KGIPVLAVCG  
QSLLGPAISN ELFEDIYSFT DFESDINECI RNPLPILEGI GFNIAKHHS

> RXA01711 (1-1158, translated) 386 residues  
MLLMAHRFFV LAINGAVTDD FTTVYSALRR FVEGIPVYNE VYHFVDPHYL YNPGATLLLA  
PLGYITHFTL ARWMFIAVNL LAIVLAFGLL TRLSGWALRS MVWPPIAIALA MLTETVQNTL  
IFSNINGILL LMLAIFLWCV VHKKSWLGG L VIGLAILIKP MFLPLLFLPL VKKQWGSLLI  
GILTPVIFNA VAWFLVPGAS EYVTRTMPYL GETRDFANSS LPGLAIYFGM PTWMEITWFL  
IFGAMVGLAV LALLRFRNTE PYFWAATTTG VLLTGVFVLS SLGQMYYSMM IFPMIFTLLG  
SRSVFHNWVA WVAAYFLLSP DTFTSQRLPD VARWMEFFSA TVGWGLLIVV TFSALIWFI  
GDIRAKGTPS SPITTDPTH D HLERTA

> RXA01714 (1-615, translated) 205 residues  
VIDSEATSQH KTSATPAEST PAEFSEAVES MHRARLRPEL TLGTIRPPQR LAPFSHAIGL  
EVGNQEESSD VSTNSEGDSF GRLILLHDPG AEETWEGAMR LVAYIQADMD HAVASDPLLP  
EVAWQWLNEG LEQAGAGFTN LGGTVTSTTS VRFGEIGGPP SAYQVEMRAS WTATGTDLTA

HVEAFAAVLA SVAGLPPEGV TELRR

> RXA01715 (1-696, translated) 232 residues

VSELDIKQLN KLQRYSQWAV FRAIPGALDD DRTEVTDQAA KFFADLEAEG KVTVRGIYNA  
SGLRADADYM IWWHAEEFED IQKAFADFRR TTILGQVSEV FWIGNALHRP SEFNKAHLPS  
FIMGEEAKDW ITVYFPVRSY DWYIMEPLKR SRILREHGQA AVEFPDVRAN TVPAFALGDY  
EWWLAFEADE LHRIVDLMHK MRYTEARLHV REELPFISGQ RVDIADLIKV LP

> RXA01729 (1-519, translated) 173 residues

VKLRTIPALL AVALLAGCSG ESADSQAVSA EETMEVTTTS TPVFEEAKEVS PITVPSGDIR  
VEDPGLNVEF IFRGTRYGTN GGSIIHIAVK NLNDVALPAD AIDPPTLDIE DYNGNKNTIE  
TLSGDDNIPL DLPLGAGATT NLQYAFNTSN GSLSNAKFQI GNVIYSGNLN SLA

> RXA01731 (1-699, translated) 233 residues

MNASSISSRF KDLFVTPSIV FDFDGTLAG HGPVLAYALC VAPEGSKDFL ERVRRELRRY  
DDGQSIYRDG YDIVAKLASE LGIDDGTMSV AYGESRKLLG SDLAPVEHVR GIKDILSSLK  
GHARLVLATN APENGVDLL RQWGVADLFD QLHFVVGKPA GLISIIISDLQ LDGPVLAVGD  
IYEFDLSPAA QLGADTALVG ATATISEAKV SMRGDSIADL PLLAWVCSRV SSS

> RXA01734 (1-534, translated) 178 residues

MTDPIEQAFE RIRAEAMRRN GSVPDLNKND AFRPPAPKG GVEKRKKGRA SGLDGRQKRY  
VRGAESLGSV LNKEIQRRGW GKDIAGGWT SNWEELVGAK IAQHTRVEMI KDKKLFITCD  
STAWATNLRM MQRQILQVIA EKVGPNIITE LRIFGPQAPS WRKGPLHVKG RGPRTYTG

> RXA01738 (1-714, translated) 238 residues

MRILPIGPHD EIAVNGSIVL LSEHDGDIVS VGPDLGTVRV TLEEIESLGT PTAPRDLGSR  
EVDACVSLLR NRELVRFDPH DGSELTREH SVAYGASGKP LFPRLDPAVI GIVELRGEDR  
LLLGMNAQKR QRYSLIAGYV SHGESLEDAF TREVFEEAAR RVSEISYVSS QPWPISGSLM  
LGMKGFTED ELPQGETDGEL AETIWASPLD IIDRKIPIAP PGSIAYDMIN AWARDKQN

> RXA01741 (1-798, translated) 266 residues

MTHIALANSA QVLIRPDSAI QFGIDATRA VLNIDPSLSS RVVPVLRNLR TARPIVDVIA  
DLTTAGLAPT AASSLLEDLL EFGVVRESAA AQVLLFGDGS LVDVTSFLE TSGFVPRPQI  
IDESPREFFE LPSSHILVLN KLAHSQRLSP LLHKYAPTYL CAAIVDNRG IGPGRRSRSG  
PCLMCVDLHR CDIDPHWLSI INQQPNGPTF PDPVTEMATA ARLVAWVTAD TWLPGVVEEV  
NPHDRTNSVR TLPVHPKCPM CWSLGS

> RXA01742 (1-504, translated) 168 residues

MQEKPEMPAI EVIRSAKRTK TVQARIVDGQ IQVRIPARMS KAEEEKAVGE IVAKLKRRTQ  
SAVSSDADLI ERAHKLNTV LEGRARVESI RWVSNQKGRW GSCTVATAEI RISDRLKHVP  
DYVLDAVLVH ELTHTFIAGH SAEFEWADK TPLAERAKGY LEAYQRWG

> RXA01748 (1-780, translated) 260 residues

MADAKKQADK AAKKQVRAAK KAQRKETRSQ MWQVFNMQRK QDKALIPLLL LAILGIPLVL  
FLIGLIWGGQ WWMLPIGIAA GVVAAMFIFT RRVERDVYKR AEGQQAAGW AVENLRSGVG  
MTWRKTAVA VTTQMDAVHR VIGLCGVVLV GEGSPHRLKP MLAQQKKRLN RVAPGVPVYE  
IITNGEGQT PIAKLQRELV KLPRNYKKND VAALAARIEA MDNVGNAPGG SLPKGPLPKG  
ASMSGMNRRA RRQAERKGEA

> RXA01749 (1-1617, translated) 539 residues

VSFLVENQLL ALVVIMTVGL LLGRIKIFGF RLGVAAVLFV GLALSTIEPD ISVPSLIYVV  
GLSLFVYTIG LEAGPGFFTS MKTTGLRNNA LTLGAIATT ALAWALITVL NIDAASGAGM  
LTGALTNTPA MAAVVDALPS LIDDTGQLHL IAELPVVAYS LAYPLGLVIV ILSIAIFSSV  
FKVDHNKEAE EAGVAVQELK GRRIRVTAG LPALENIPEL LNLHVIVSRV ERDGEQFIPL  
YGEHARIGDV LTVVGAEDEL NRAEKAIGEL IDGDPYSNVE LDYRRIFVSN TAVVGTPLSK  
LQPLFKDMLI TRIRRGDTDL VASSDMTLQL GDRVRVVAPE EKLREATQLL GDSYKKLSDF  
NLLPLAAGLM IGVLVGMVEF PLPGGSSSLK GNAGGPLVVA LLLGMINRTG KFWVQIPYGA  
NLALRQLGIT LFLAAIGTSA GAGFRSAISD PQSLTIIGFG ALLTLFISIT VLFVGHKLMK  
IPFGETAGIL AGTQTHPAVL SYVSDASRNE LPAMGYTSVY PLAMIAKILA AQTLFLLI

> RXA01750 (1-1641, translated) 547 residues



MCINDPKGEL LKKNYVRMSK RGFQVVQFNL INNLTDTIYN PLGLAAEAAR EGNMGMKCATY  
 VENIAEVFFP VDGADDPVWP NAANNAFKRA AYGLIDFYLE EEREMRKQAA AENWDAKVLVD  
 TRIDQMVGKV TLYNCYQLFV QLSAKKLKNP VERLNERARA GEFGNLETDE NAAMMFQDAV  
 TEAEENEMFL WEGEKEKDML TLFFSATDGL PKSSVRTLVG NADKALKAMG GAEKMMASVY  
 GIAITAMSF TDPTISTLTS GTLSQNVDLA GLSFPRRMGV RFAAPYVKRY NLVGSQVQWD  
 AYSDAKFTKP LGKNFVHDDT LSVEGWARFY IKDSFPSNTA YLRLRILNGT SGTLIKTLTYF  
 KFTKGYQTNL KGRAFITDPV TDEKIIKNGL LIELVKNDAG DFVPGHVQFK TKKLNLDQLT  
 QEQINMPGHD MIKQVDAMVD AVSALNVRYE EKPKAVFFVT PPHLMKYAKL ILILIKQLVD  
 LNFDSYSYMT ENQKPDYKTR FMLDELGNLQ SEGHIAGFE TMLSIGLGQE QQSATSQVVA  
 KNYALAA

> RXA01752 (1-552, translated) 184 residues  
 MMEQDLSYRE ILPLNASEEK KKAALIDAIE GLRVRDPLLS ASIAFTRGQK VAFIAVVVGF  
 ILMILIFARQA ALIGLSATCT FMYLITLLDR FIMFSRGIRA ESIIQVSEDE ALAFPEDKLG  
 TYTVLVPAVG EPEVIAQLLA SMHAFDYPKH LLQVLLMLEE DDLPTIAAAE AAGVDQVATI  
 IKVP

> RXA01753 (1-1539, translated) 513 residues  
 MSNPSLEPLE PIELSDGTEI EVSDVDPEPQ AGNAQMEVPS LRTYVFRGII AIACLIIGFY  
 ESFVLMWQNL RIGVANYSLL VVLMAIVLFI GLDRKRARAL NIHDREVDYI IGGIVVLIAI  
 TIKSQLLPRF VDWETLLRLD MFALLFFAFG ISGLVFGMRS TFSFAPGWIL LFGYNAVAHL  
 IISVIFGGGF WGPVMANIIG LSLAVLVSSN RDLVQATYLA LMTVLFGVII AIIWALTDG  
 SKFLTLPVAV LATITVVLVS SRWRLGQWKI RRRQPTVEKA GPALIAVVVA TALLAWIPTP  
 YVERVNNLPG LQMLAKPAPG VIAPIGWHID DVQYNNWASR YFGPGSSLLR QTMTADHYNE  
 AWDPDGLDRT VVVDTLQSAE RFQQRAFGDE TLYSTLRGRK SDTVQVDLGY GVDGRAYTVL  
 DETDFLTYYK LVFEWQTTNN TVEKISVIAV DDHRAEAKFP ELAPSVTRMF IQVATILFRG  
 NDVTIDTNTQ LKDLDLVSQV GRQIVAEQQV GRS

> RXA01754 (1-1941, translated) 647 residues  
 VKIKSVFLST ALSASLLGI TPPVLGATIN PSLPLSALSS SDDIAVPNFA KELPLAFDVP  
 AGTVPQSLSG TLQIPAEFSG GVVEFYDGDR LFHTLRLEVN DSRHIEVPL QSVFVEDGRA  
 TFWLRAMLDP VNNQWCYEEQ EVRFLDGNVT FEGATINPAV VADYFSPVLR ALTIYVPENP  
 SEAVQEATLE VATSLDSVYR RSGLDVNVET LPTGTDAPPT RPQDFERQIV LVDEATESNT  
 QKTELNVNPGQ DNAFLRLNGN ADELYDQARL LTDATLPLAV DTEVTASGFG DVPNLSTDVA  
 TLQELGKITQL TSESVA RTSV TLGIERSRLR TYSQSMDLHI TGTYTPLPPQ NAGQITFSIG  
 DTVLDSLTTD DTGIDREFN VPGDLVNRYT AIVVEFTSTG DVNCGVTQPV GLNIDSDSLV  
 TSQHSQDVPVL NGFRSLPQSF QPRVDVAFAD PSVQELSRV SVVLGIQSMS SQRIRPHLVN  
 WDEAVASERP TIFIDAAGAK TDQVPSYLAQ QGQTLTITSK NDQNADGEQL TRSLQTNAAL  
 VVGSIQAVWD ADKKRTVIVA SSQDNPPDL ALISWMGEDR ERWSDLNGDL IVKVRDREP  
 QLTVEAPDQ PGRSATAFIA IGVSLVVIAL IVAAVSVSVR RSQKGYK

> RXA01760 (1-282, translated) 94 residues  
 MAAFLEITLK INDEGRPSAA GYQYEQKQPF LSSIAGATSK ELLIREEDVQ VLHGCDTVAN  
 AEDYLVSELF TADVVGGLAP LLQADPEIRI YQVA

> RXA01761 (1-1518, translated) 506 residues  
 ADANADFVDG VVDGAGRASF SNAAYSSDGT TLDGEGASVD AQGNPLHADG TPMSAAEAEM  
 KMAGLSSSGT MMEKSGVKSS GITTAADVMD DQSLASSVTE SGLSKIPDTY GADVSGAAGT  
 VGTGADYSA TDSSAGLNMS EAALQSGTPM GALAGGSVSS SDQAMNDAAL QIAASQGLAP  
 AGSIAGMEQL SAQATEAPAG KAGKQLGDLG GSALNTQLAS MGQVQVGDVSN SAYAAGGMGG  
 VDVAGKVTEA AQHLSQVPGQ IQNAVNTADA GSSGASFGQM AQGAAGIAGV AGVIGAAGAA  
 SSAAQAGTV QGAMGNAAAG AGMINNAVSG GATGSTGAH VVNASHGPVA PGQAHYQESG  
 HAQAFVQNNQ ANTAHTANTR APSSAQIMGA NVAGSLASQA VRGIGQPGQM GANVRDAMGG  
 SGRSGGRGGA TQGGRGARS GVSANNGIRA QRGQKPSVTG QAMNAAMRSA AVSGRMANMD  
 GNSVGGTEAD PQQSGGVTEK GDKGVK

> RXA01765 (1-942, translated) 314 residues  
 MSNNVVKYEC AVDADNIVAV DMHVHLEVDS CGHKSMPTDI MAASSKYFKT AERTPSADAI  
 ADIYREHKMA AVVFTIDART QMGHLPSID DLVASCARNN DVLIPFGSVD PRGTGEDALVE  
 ARRQVEELGV RGFKFHPSVQ GFDPSAEPFY PLWELLESFG LPCVFHTGQN GMGAGLPGGR  
 GIKLRFSNPM LLDDVAADFP NLTIIMAHPS VPWQDEANSI ATHKANVFID LSGWSPKYFP

ESLVRQSNV LSKKVLFGTD FPLITPEKWL AAFANLPLKD EVRPGILKDN AVKVLGLAAS  
TERGSQAEKV VQHA

> RXA01767 (1-336, translated) 112 residues  
MIDHKLWFNT VTNNASVREA AGKCDIPIRT LNEQLNRRIL PEKTVIALAR AYDLSPVDAL  
VRTGHLTEEE AGSREEDASP DSADDYPTWA LNSHLDYGIL GAFGDIAEEV NS

> RXA01768 (1-378, translated) 126 residues  
MSESTSSANS TTILNDTFNP KPGVPYARVD NLEFATRDEF RAWATAEMEA GNVISATIAN  
APREDRIKSF VMDLVRDGID DAAEEIVSRI DSGDFTMKEA LTAAIASIND LDADDVVSDI  
VENHFN

> RXA01769 (1-429, translated) 143 residues  
LGRAPHSLFF PIGFYYPMT SITTTDTPLY TALPHTRISD AELLTPTTTV HEILVYGPAAE  
CPGCTATLDF FARKNMPATK VTVAAGDVAH TYITQDLGYL QAPIVTVRIS SSASNHDNEH  
NTQILHWSGV NRYLMQALSR THF

> RXA01770 (1-3765, translated) 1255 residues  
MPIIIDNLNS DDDSTIGTAT EYNPDTDADL LDAINADADL DGDATISTNA TEEGVDAAAE  
KPKKKRKAPA LKPKGLTAKF FHRDLTG VGG RTGRNLKNVH PTNPDL SYQP VSDVYTPQSA  
DHKGIKTRYI LTHPTPAVVL SESISNAFHV STLRRNNNVN NSDSELAAWP YLYQLDIPQL  
DQMINVADIC DYHFHGYNLW VDFTPQTIAL RSGKTVLDDG TTASDNTTHV YRVTVHVIA  
GQDHGSTLLD DQGNQVLRD DNPSTPSIK RIGAVTDLFD HNPFGFASVN SFAFVDFSWD  
PATTLVMDLN NLD SYLSNHI NIASSPTPIA LDMVVLNEWS EKSQYLCERV VAQAKLINSN  
KITAHSVSVI KQNAHNILWF TEQMNPGTTN LSEVPISKKS MLPMSRQLRI LEHYDVPLTA  
YSALEFWTVSA IKNESMVQYL VRQNMQLTSL SNLDALNSIV SQLPVPDKDV VAASGYQIQP  
HFSTQQREAI TTDNPLAIQ AGAGTGKSTV ILERIEYLCA AGTNPEEIAV LSFTNAAADN  
ITAKNDKVTS MTISKMVHEI YAHNFPDHEI STIDTIINTL DIEYGDQMVV SDYMIQLRDL  
LYKVMTOGGN ANLTALSIFM ESHIEAFISV LDQIKQTSLE LEIICCYLLL DKLIEPHASP  
KYLIIDEVQD NSVFEFVFAL RFAAKHNTSL YLVGDSSQTL YEFRSANPKA LNSLEASGVF  
GTYRLTTNYR SNQEILDFAN IHLSDIEANQ FAGIQLYANS FDAPTADSFK EKVELDMHHV  
SKQSEFTDSI PYFMESNKAR FDAAILNNEQ TIVLAHSGRE IRAAQALAE MYPSTVVRNL  
QSDKGFNNTV FSTFIKDFWF EVTAVDPAHA AFTFTSQVTA HLDKLVGRKR EQMEDRVIRS  
MAAWWRENER DIQGWVQQTQ SGAITNEEFF YRLRQCILDY EIRNNRARQS MLNARNNANK  
EAVAQEKPLL MVSTIHSAGK LEFDNVIVLQ KPSSDAEMTE EGKRATYVAL TRAKKRELII  
AGSTRAYPRI VTDYEQIVDL LEKRDEERKI KEEEAALAT LEAEQETRAL AAAEAQAQAL  
LLEHNPWLRL LSDEEVTALT EQEIINNVEP ALQIEEEEE ARALAAEPA IQQYLSQFAF  
DEFPPDDNVA NTVVHVAPQP ILHQAVPADV TVQSSTAPVT PVVADLEVTT VAADPVEPTI  
VAAQPEVDDN LVYSTSTPNS HSDVIAVNSD TSENAAVNPV LSDIEALRAI FNNQD

> RXA01771 (1-702, translated) 234 residues  
MHQAGQLIND PSQGLWRTSA LRSPVARVGH AVLRQRAGEI SRMQGREFSR PGDQFRQVDL  
RRRLIQVHPQ SIPTADAMAV TITMALTAAT IDPVK FVADS QNPDEEIIYA AQIALREMVI  
AMPLEDFIGV RIDLEPVLVA AQAAAKNVGV EVSSILLKDL NLPQEYSGAL QESIVAKIQA  
ETDLERARNE VKTTRARLAS AKVLEQNPII AKIRMIEALP PGSTIEVREG DSKA

> RXA01773 (1-411, translated) 137 residues  
MITHIQAGLH LGGCRAAGLL PIPAHIDHIV RLTAADFYDT QSAPQLLSNT VLDVLDTTTTQ  
DLKALWPVAE HIATTIPESE NVLIHCQMGI NRSAALMTRV LMLRNDCTAD EAIALLRDRR  
SPFVLFNEHF VEQLRAL

> RXA01774 (1-783, translated) 261 residues  
MSPNFQARGT TAPTVALSMR QIAHIREEEK KSPLAASVFI TPTTKQMVVR DLES LFQQLY  
HTDLPEPSIK DSGLISAIGS SAGNTNPNAL ALETQMAYHL VLAMHHTDVA TWHKVVTKNI  
TESAAAQDAA VEHS AKYDAV YDAAQLMGIT VEEGNVGSIA IAFSTARADG KSDWCVSGIS  
RYIEVTEALD AARAVTKNTD ALNKTALPDV QPAPVVHSAQ FMNKSADHGH VNTAEKDQPT  
CLKTVHLQPH RYPRTGFKAI Q

> RXA01775 (1-564, translated) 188 residues  
MSYSLIISKA PTHSMPFNEA ELLELVDELH SDNTVKKPVI VPLPDDFSYT VDSAVRLHDL  
GVDQELTDWI TAQVAAAYPN QIVSEIAAAP DPQAKTLFSA NAYNTRSEGT FWTEHPITQL

QYKRCYQIVI ENVTGVYHPL PVDNYRYVPP VTPSLPQPVY HEAIALNESD VADHGTRAAK  
HAMINRNV

> RXA01776 (1-1452, translated) 484 residues

MTHTDTPAPA HGVTPSEFAV TSHELTTSPT PSPTQVAIAA QEKIRQRKLE ELKAKKRTDT  
TAQPLLPAV LHTRPLPSN PPRPSPPAPT TGHWELLIVR SQQKKMTAAN PFLKFLHLGK  
AFNVKDLGLT CDRTTDVLDS RLGKLNPPSS LILELATALD LHPFLSVALS SHSAVNARRN  
QLELTLHNHD TQGTALGHSV TMVQLPEVIN RAAVEPYIKP KGSGNDPLDQ SLNHRAPTVS  
DVQKALVQEN TGTATDSNNY LLPFDPSGA PKTTALNAPN KDLLQARHEL AYIPEIPAIA  
SWLDHLDPIIM RVHRSIALSI FPVQLLRAAV ENLPHNVTDL HNHLDPEDLL PEELTTWLDH  
LFDADLTALA SCPQLAPPV RSHNHAKAIA AITVTSVMDA LIAKTLDAHD DPLPSLPEFV  
ELLRDABAQAL AAHFKQQRGE VLPQPNGLRY ATDFGLLSYI ADGLHEYALA IDFGLIYPNE  
LITE

> RXA01777 (1-459, translated) 153 residues

MSRIITAPVH KPYIIAREVK GVSHVHDTV GKWQATLHTL KPGPSWPKPS QFTAPKSTSI  
WFIIVATHPR NPRARKGTL GRGGYELKD TDLNFLTERQ DLLATSTSRD PEDCRLRFNS  
RHDAAAFLLHA NARHINKLFH PALGHARYDL IDV

> RXA01778 (1-1137, translated) 379 residues

MLYQHTTRGL IISDAIIAKI SQVNQLLLLR PTLLQDKDMH HATLSSDTPS IRSRRRSYRE  
NKAAYATTST IRNRETFEST SDIDFAILMI QDVQESLVSF DPTLAQDMKP RTNAVISALN  
ELREPLDTFY RAHEYGDIIS DGAYEFDHAA IDAQHSLSEL VAGLHNYDNL MFPQETAPLM  
SESNGIQLAQ YYKSTKLDES QLTVEPNEPG ISIMWHAHDF TWSCLVRYDD MNRYPEHFSI  
SFKDMLIPEQ IYTFHFTPRE AMQLRKGLFN AIAAYKSQTW GDENTDLTKA ELEFGGTSMT  
FRAGLSQLSV TGPPDHRQVF CLSSSGREDH NTPPNMRDGH VIDIAVTQLS TLRNLIRVLC  
TTHPDHSPAL LPYQQQYTI

> RXA01779 (1-1419, translated) 473 residues

MRYTPRTHRA LGLAALTATA LLLSSCSTTA DLLGADSV AQ AVTDGGSALD PTAHVLTIT  
NATAMTLAEL PENTDPDAAN NTEPTMAQSA LKRIYGLEIA ADGTLIIVAA PLTSRNSGSE  
QPTVAAMADP ENNAELTTAH ILEIDPATGT ATPRQDIALT EDFQTMASFF SQIRNGWGTT  
QLIGQHPDDP KQPIRSADTW TVTGSTQITG FNTNTPGTGE DAAYTMPATE PAVGLCALES  
GSDAPLDEHR ELSTSALRTA SVLSSSGSAT LKLHDPMVMS ATGIVQARAY VDGEVINQHE  
IGDLREQLGI TIEESEAAQA ESDAQAAATDH PLAALGLSNP TSSALVPGLA ELDCLSDAQ  
ATWHNRDTSI GTGKPSVLAV INAEMADDFT LQLLSSGATT AETQLAQLPD ETAFVLIDPS  
SGAVTDLFFI QSLNTDLPAP TTQINSIAVD ERDPNIIYAT FSGDDHLYQM MLG

> RXA01780 (1-375, translated) 125 residues

MTFLHPKAAF YPLTMDHLTD LGLDPEQLIN ELPTITYDVQ PHNVFVLQFS TADVRYVQEG  
NTLFIRSDEL INPELRQRQR TQLNDDLNNP ASLRVCDEIS GRSTVFLKDK SVVTHDHGTN  
CCDSA

> RXA01781 (1-261, translated) 87 residues

VLSLTITGPI AVIPHNPDEA SAKAVATKHK HTLSGATSDH PYAGMTLKDM IEQGFTLTPL  
EFPLCAVDDP TDSDRMTMHVI NVREHSM

> RXA01782 (1-396, translated) 132 residues

MTTFALIASP NNVDPATAESP LAIEIHTDED SSYPLGLIDS DHLVPAVIYG DMVIYTKTLL  
AQTPPDVST ASAFFDKLTA LDAQGRTRDL VYSATYSQLV IAGHNRTVLT DDSEFYDEFY  
QVIEAAPGVI LK

> RXA01783 (1-237, translated) 79 residues

MINLFAAALP AFEPLSITSI LVLGAVALIC GLPVFLALEK SAELDDLFAA LIIAVLLGFA  
AYTFVLPKLV ELGCTICQL

> RXA01785 (1-576, translated) 192 residues

VDQFVEFGGG QANINPDGSA TVDWEFSFSI NFYDGLVPFT ITNPHLEVS AGTGVLGTGDL  
TSYAVEMSNP NEKTPLTDLY EDVTITTFGG VNLDPEGVVT SNPDYDGVIV DVPLDATSQV  
TSGAGWGAWP QGFLDFHFDL NLPSYWYSSD GAGDPKKAPM SFNVDFTN GP GLVNSQLLHR  
QVISMPETKA VS

> RXA01787 (1-354, translated) 118 residues  
 TEKIDKAQPP VDQLGSFLHG LETSVADLGV GDRVFLPRFS TFDKKLGRYR IHTVLGFAEN  
 DPFNPMTSSE RFGKGPYVDM FDNQDNANFN NSYITTDTVR IVVDPVPETN PDDEKAGR

> RXA01788 (1-441, translated) 147 residues  
 MSRSYPIYII SFAPADDLHG VGGFEWVPAS TPENKAAAF TFDQFDDSR NNGGSHIVRL  
 LNISDPNITA DMTQDDITAY LDSNIDRWES TEHALKQFVP LNAGADRVPT GGADHITHA  
 CRIITVQRSC TRIHLRCGCI PTPQHRP

> RXA01789 (1-642, translated) 214 residues  
 MPHNPIELHT NDVLDALDID AICDDVFLYT DFEHTPGQLD RFEQLAFTKI YDMLETAEEK  
 FPDVAINDTL STGNHAAEQY FLANPGNIIV LTSFALNQT DLRDLIISPCI KYTAHARALM  
 RAVTRTLCTA NNPVERATIF PVSANALSI EALCSEYHAF RTKQVLNTAA LINPDNTLIP  
 MLLSKAYEAY AWHKGVESAQ RGSNLAREYY AGLI

> RXA01790 (1-60, translated) 20 residues  
 VLIAEDIRDM DDYGEDHPDL

> RXA01791 (1-363, translated) 121 residues  
 MTSPTTLKPW SIRGPIDGEY TMLEAYPFQY VANTRPAIML YALDENGVE QYADLTINLA  
 DVELKQLNHV IINPDLHADV TELCISAGLL RPGVLGQHQV GSTTAKVYRL TERADGWLQL  
 F

> RXA01792 (1-273, translated) 91 residues  
 MPQYTITITD EQKAVLHSLT NPHIATAEHG AITAIEIHDD HDVVVYHVQP DGTLYTERLV  
 EGFHYGWTRF DSEGFEDSD NNRVVDGLRD E

> RXA01793 (1-234, translated) 78 residues  
 MAQYRVSFIA LAESTIEVEA DSPEEALDLA NAEFDYPVTL AGDPYELHDW EARAIEIWL D  
 TSSTPQQRLG EHVVKIED

> RXA01794 (1-234, translated) 78 residues  
 MATHRVHFVA TASAYIDVEA DSPEDAIEKA YDLAGDLPGL IADNEFDLGE WEVQADVQWP  
 DNSVPREQRL EEGVDLLD

> RXA01796 (1-483, translated) 161 residues  
 FYCPSDQDAY VDLTLFDQMR QFGAENAPLA QMYIVAHEYG HHVQNLEGTL GLSNYNPGA  
 DSNVAVKIELQ ADCYAGIWAN HSSEGPDPPL QPITESELD ALLASAVGD DNIQQRSGGD  
 VNPESWTHGS SQQRKDAFLA GYNTGQMSAC DFLGRGVYND A

> RXA01799 (1-1194, translated) 398 residues  
 MEIPLPTSLI DVITDGALGQ TCIDQAFAAQ LGRVTGVEFN LSDDKTAAEV RINKASGSPF  
 DTTGEVIAWI NNQEFEWST RGEDLGLPEL QGIQPLDDDL ITAARTLYSN APAFIAPLRD  
 GRRALVAINH TPKLVGIRRT LIEGLQALKP GTDLKRALTS FAAFCELGIR FDDNRISFSD  
 GTSLLLRRGGK VIEIAGGLSL RDVRADAAFM SAEHQLLFDA ISSSHNVTFD PHTNVATVAN  
 EHQVHAIPLA VIDGTRWVWT WSLKELNGQA TEGLARFGFD NGLLLLTNAE ILAEEATAFN  
 LIDVAKQVLN TWTHTIVQQP DGTGIVLLLD HPRLQLPPAS HAAVEATLYH QLPGDIDARR  
 AVASYAAHRQ LPFDGYALT VEGQVGVTFD GEHLTKVG

> RXA01800 (1-720, translated) 240 residues  
 VKPLGKIAVP WTWYLGIVGV IIFDVAAIT MLTLVPNKMP ERVNSGLVAL GGSYAPPMSR  
 ETLIARVIAG AVLVLVISLG ISLLISAQSK NLASDHPDAS AIQIARRWAF LNNIQSCIGW  
 FSFFLAAILS ISSRLRNGPG ATTHLEMAVY IIAVSVLAWA LMISLRGQV AIDRAIPIRE  
 DDSELKWGMI YHDASDKRVF VELDDGHTTV INMARGGAWL LIAVMVLPAL AIVGWVLEN

> RXA01803 (1-960, translated) 320 residues  
 MRKKKDGQNL PDFRKNPPKL DKKAYEKEK RLQAEVL DQ QWVVGARV VIVMEGRDAA  
 GKGSIAKRIT QYLNPRSARI EALPTNSRE KGQWYFQRYI EKLPTAGEIV IFDRSWYNRA  
 GVERVMGFCT SQEYRRFLHQ APIFERLLVE DGIHLRKYWF SVSDEEQIER FEDRLSDPLR  
 RWKLSPMDLQ SITRWEDYSR AKDEMFIHTD IPSAPWYTV SEDKKRSRIN VISHLLSTIP

YEKIDRPLPE IPHRPDSESD YVRPPRDEFR YVPDVAHLE EERIKKEEKA KKAKKPAKAA  
GKNSDKQKSS GGKGGKKSSK

> RXA01804 (1-321, translated) 107 residues  
MHIVNIRFKP KAKYVDTFRY TVDKFTESTR TEEGCLYFDW FRNTDYPGEY LVIGVWTDG  
ATEHKKSEHF LRAQETLPPL LQOTPMIIQS EFSKKKGWER FSDFTVY

> RXA01805 (1-330, translated) 110 residues  
VVVVILINVK FKPLPEYVDT FREQVAEFTE KTRAEEGNIF FDWSINTDNP NEFILIEAFQ  
DDAAEAHVNS DHFKAACELF PTILSETPEI INTLIEGKTE WDRMAEFVAV

> RXA01806 (1-480, translated) 160 residues  
MSSLDNAPLL ELDVQEWVNH EGLSNEDLRG KVVVVVEVFQM LCPGCVNHGV POAQKIHRMI  
DESQVQVIGL HSVFEHHDVM TPEALKVFID EFGIKFPVAV DMPREGQRIP STMKKYRLEG  
TPSIILADRK GRIRQVQFGQ VDDFVLGLLL GSLLSETDET

> RXA01809 (1-636, translated) 212 residues  
HIRHEQAMRD GHQDLSVFG ADGAIMLEEL KNRYQRPPEN EPHDDDVTEM IKTTEETEKE  
NVEMDQDIIV VDNVDEQVVV TPAHDADSV VVAEQVVASE PTPEVPKVE HVEMSVDLG  
ETITPIDQAI RSFQMNGIE HSVVLRRLGL MTQVAHNKEL DEVYAKALAE GESHAQQOHE  
LEAENERLKK EVDALAAELS AALMGEGGGD HD

> RXA01812 (1-1230, translated) 410 residues  
SFNDVDPAVT HPHLTVIYPP LTPASEEKFN KITSVAAVSK RPTTLPYFRA DGSPTRGFAN  
FSTGGIHGAE YNEDRFDHDQ DLHTVATREF FAILDATLAA LYAAHQAEPE SADYQIAQDA  
LAWAKNVLSQ QKLIKSPQL YNPETGVTYE WEFVAQAQAW IRNKPVEVIL PTGESMTVKH  
KSVLASASYP LRDNVAYWRS EPKTPQLFPV AKSGGSSLEK KYNYSVGTG IHEDFSSYYF  
LLLTNMAAFT NADLGIDEKT GRPRDRYREI YEQKEIYGAQ RKDPSIDEET KQRLGILREG  
TKLILNSATG AADAGHDTPI LMNNRVIAMR IIGQLFSWRI GQAQSLAGAT IISTNTDGLY  
SVLDMGTNQR VLDEHATAIG VQIEPEELDI VSKDSNSRAE FLNGYINAA

> RXA01813 (1-630, translated) 210 residues  
MVAIVVVAIV VVGFIYQGG GSKAAKLGDR DYEDTSLAME VGSDSITLTS ANTSADAKSV  
QLFEDFSCSH CSELSLATDA DMKTQIEDGN LVVEIKPLNF LDRENIDGHS THALAAALAV  
ADSNDATLYW NFRAFLMEDQ SEIYNQWSDD DFADGVEALG ADSSVVDAIR TATTSSAHTT  
WQPQTVKNSL KKPAACSYHA FFKTARMLKA

> RXA01815 (1-792, translated) 264 residues  
MNRSTISPVE ARQQFRAGLI QPTSGWSAGF AQANLISMPQ DLAYDFLLFA QRNPKPCPIL  
EVLNAGETFG GIFGSNATEA DIRTAPQYR IYAHGELIDS PASAVDYWRD DLVSFIIGCS  
FTFEHPMVQA GVPVRHLEAG RNVPMYETSL ACRPAGSLSG NLVVSLRMIP ASQVADAVRI  
TSRYPAVHGA PVHIGDPSLI GIDDINPDF GDAPLSEPSD VPVFWACGVT PQAMVMSSKP  
PLAITHAPGH MLITDAPDLG FQVP

> RXA01816 (1-732, translated) 244 residues  
VQLLHTPAAI SISFDDPNLI STAGLVPTMA LAEDRLTVPT DKGANPGAKI TTLIAGMVAG  
ADSIDDIDAL RHGGMHRLFD WIYAPSTLGS FLRAFTFGHV RQLDAVASRF LVGLATQAPA  
LVPVDASTSD YVFIDVDDTI IKVHGHQKQG AGFGYSGIRG LNALLATVTT PESAPVVVAQ  
RLRKGSCGSP RGAGRLIADA VATTRLPGM EDEKILLRAD SAFYGHPSIS AAIKAGADVS  
SRCG

> RXA01817 (1-633, translated) 211 residues  
MTPNVKKAIA QVPDDAWQTI KYTNAIFDED TGRWISVAEV AEIPFTAFTS RKKTDHIPGL  
LVVRIPELN NKDQDQGLF DLHRFHAVFT TADPGILDTV AADKTHROHA IIEQVNADV  
ASALAHMPSG VFTANSALV CAVMAFNLR TAGVIAAGAM ARATTATIRR KLVAVPARIA  
RSARRLILHL PRNWRWETQW SRLCDHGRLP P

> RXA01820 (1-1374, translated) 458 residues  
MSASFDDPNL ISLAGLVPTM HLADAASLST LAQDRLSITG DKGANAGAKI ASLVAGMVAG  
ADSIDDMDVL RHGGMRLFD RIYAPSTLGS FLRAFTFGHV RQLDAVASRF LVNLRQAPH  
LVPPPPAGSG GNGYVFVDVD DTIEVHGHT KQGAGFGYSG IRGLNALLAT VTTAQSAPII

VGQRLRKGSC GSPRGAHRLI ADAMTTTRRL PGMEDKKILV RADSAYYGHP SVSVALRSGA  
DVSVTVRMTV NVKKAIVAIP EDAWQTIQYT DAIFDEASQS WISLAQVAEV PFTAFTSRKK  
ADHVPGRLLV RRIPELNKKD VYQPLFDLH RFHAVFTTAD PGVLDTVAAD KTHRQHAIE  
QVNADLKASA LAHLPSGTFT ANSAWLVCAV MAFNLTRATG VIAAGGMAKA TTATIRRTL  
AVPARVARRS RRLVLHLPEG WTWQPQWQKL FDHGHSP

> RXA01825 (1-270, translated) 90 residues  
MPKARVTKNE TAPVSSNPSA NRTPVKINSA GTPMWYKVM FAFMIVGLAW LIINYLVGPQ  
IPFMADLGAW NYGIGFGLMI IGLLMTMGWR

> RXA01831 (1-462, translated) 154 residues  
MDSLVLGLR IALLVVLWFF VLMALRAMRA DLKVTGQAST SSSSVAAPQG LARAFNRSSP  
PRLTLVVEGP LAGSSIEVSE DMTMGRSPEC TFVVGDDYAS GMHARVFKRG SEWFVEDLDS  
RNGTFVGGTR IDQPEQIAVG TDIRIGRTAV RLVP

> RXA01834 (1-702, translated) 234 residues  
MLGGGGAILA IPLLIYGFSF SATQATAASL IIGLGALIG LISQYAAGHV RLKEGLSFGL  
LGLVGSFVGS HLASNIPDSL LLSGFAILTL VVALTMISKL RSTREYITRR PSILAIALSA  
TGVGFLTGFV GVGGGFAIVP ALIFALGFSM RQASATSLVV IAVNSAIAMG FRYSDLASID  
WSVISPIIIT TVLGAFSGVK LAKKVKASSL QLGFAFLIF ISIYMGFQNF PDLF

> RXA01842 (1-918, translated) 306 residues  
MSKVYVSNEY GGPENQELIT RNTPQPGPGE LGVKVHAAGV NPLDWKVRSG VAGTPRELPA  
PLGEEASGIV TAVGDGVEGF AVGDPVLGLV APGVGGYAE TLLVAESTVL KPKEISFTDA  
AAIPVAGASA YAGTHQVELE PGQSLLINGA GGGVGLMAAQ IGRVHKFQVV GVDHEDKREL  
IESTGAIFVA TGDAVAEQVR ALLPDGVDV FDLVGGEALR VVAPLAKNPA HVISAADAAT  
VGELGGQVLR RTPEMVGQIT GVVQYGLVDF KVDTTYPLEQ AGKALAHVEQ GHARGKIVLE  
LITSQD

> RXA01844 (1-180, translated) 60 residues  
VVSIAQELEI IEDGTGAVLV SEQATTDFNG FIGYSYFTTG TDGATCITDL RLRASPLPQV

> RXA01845 (1-408, translated) 136 residues  
MISNSWAIET TCALYLPVEA LAEVVDAYPQ LALAIMRMQQ DQLVRSRERE TAQTTSTVEQ  
RVAAALQHLD AKLGQIRQDG SLLQVRLRR DDVAGTTVES ASRAMARMKK TGVIDSGREW  
IAITNHQALA DLVAGL

> RXA01846 (1-258, translated) 86 residues  
MSIPGNVSYV AQGGTGWDGA DQYTTGESWD LQSFLNSTD YLMIIGGSL ALVGGAAGVIW  
GFVNVMRKLF GGQSGQQIQW FTTILL

> RXA01847 (1-735, translated) 245 residues  
MLIVLPPSET KTHGGSGKPL DFHHSFPSL TKARQTIAD LQALEVDEAL KVLGISEKLR  
PEAESNRAL TSPTMPAIFR YSGVLYDALD AATLPEKALE RLAIGSALFG VIHATDPIPH  
YRLSGGKLP TKSGELPTMK ARWGTSISEA LIDVNQLVID LRSPTYQLG RVKDAVTVRV  
ESVMEDGSRK VVSHFNKHYK GELARVLALS EKEAHTAEDV MSIAQAAGLV VEENPNHKET  
LTLVV

> RXA01856 (1-546, translated) 182 residues  
MNPFLSDTLI VQQTSSFLSN NFEIYNPDGE VVIRIKTEGS LGSRLVKGDR RFTLEDAFGT  
PLMQVRDPMN FVRDYEIDD PNGNPIAHVR KRFTFFNKRM DIELPGDRVI EMHGNFLGFE  
FEFRMGDRIP AKVTRKWSGA GNGYLGRSTY ALIFDEEAPD EIRKVIIGGM VALDLIREKE  
RN

> RXA01857 (1-651, translated) 217 residues  
MASRRFRMML TASITAASLG FSLTPAIADE AVTVATAPSV GFDGSGVERDA PFTAVPHDVV  
LGVGATQSEL IFNWITAQGL TGQVAQISLD DTFASPITVD AVSENVSIVN TEGDSRDRAE  
GEYVEYRDGA VNRATVDSL ENTYSYRVG SEADGWSEVQ TFNTGTYGDN WNFLFFGDTQ  
LYNTHSNRAE EVQNWANNLE RRPTNRKPRN LLHPLRG

> RXA01858 (1-573, translated) 191 residues

MFMTPRALTE DNELTLALKS LGGLMVSPNE CSVVTEVMPT WRELWHQRLR WQRGALENLG  
 AYGITPQTTR YWFQQLGIGY GALALVAYFA VIIITFLARD QWIWYPFWML LGLLFMIERV  
 LTVWRSTWFA RFVAALLIPE LIYASYLNLV FLKGVVDILL AKQAHWGEHG DKTMQVADAA  
 AEINDEGEER R

> RXA01870 (1-675, translated) 225 residues  
 VGVAVVLLLL PTLINLVVPD KANDYKQLEI DLLGVDWSVP ITTEESA AVL CEETSDEITQ  
 KYWDCNGDTT VVTMIVEGVK DPSNTLRRMV GSSLITSVDD SLEAVSSEDG RAHALYVPGQ  
 QEGSLWTLPI VALSVQSGSD YEDLTAIAII NGTSLDYST HIWSSMAADR GLPYQODFPL  
 -----MLEEEPWQDT PGGDRPFELP NDFFDQYPDL FGPGSVIPNL EGESL

> RXA01871 (1-963, translated) 321 residues  
 MSRMFSITLW VAILLSTPAL FLSLATFIFV DGISVLVNIV FAVLYLVVIV FLLSRTPLWP  
 RFKSGSGSKKG GGFVAWAASSL LWGAFVGFGI VMLFAGPVM D LTKLWDFV AMSFTGAYPE  
 EIAKALGVAI ILLSFRQLNR PWHGFITGAL VGLGFEVNEN LLYGATGAIM DPNADLDGVL  
 MMWQYRTMLG PLIHTLLTGF AGYGIALAFF RARKTVAWRW GVAIGWTLIA FALHFSWNLM  
 WENVIGSYVT IIVVSVMYG LAIYILWSNW AEARNDS SYA FVPGIITNTK DLSLLDAPIP  
 VGAEVPESRI PQQIEEPKAE N

> RXA01874 (1-348, translated) 116 residues  
 VIAYVASACC LPFGAFAGAL LSKELSGHLQ ERVLLTHTVI NFLGFVGFAA LGSLSVLFAA  
 IWRTKIRHNF TPWSVGIMAV SLPIIVTGIL LNNGYVAAQA WPRTWQHGCW PWWGGG

> RXA01875 (1-798, translated) 266 residues  
 VDSLLNKGVA ASDIVAIVRN EEKAADLKAR GIALGVATFE DEAAALTALE GVDRLVFISG  
 SEVGQRVAQH TNVINAAKAA GVTFIAYTSL LNLGTSKLAL APEHIATEKL LAESGIDHAL  
 LRNGWYWENY ESSIGAAKAT GKVFAGAAEGA RVSAARKDY AEAAAVVITS DNQAGKVYEL  
 AGAPALTYE IAAGIGEVIG SEAEYVNLSV EEYQNALEQA GVPAEFAALL AGMDPIIAEG  
 ALYSDSTDLO DLIGRPSTSI VEALSS

> RXA01877 (1-1065, translated) 355 residues  
 LRLATGGVLA TLLIGGVTA ATKKDIIVDV NGEQMSLVMT SGTVEGVLAQ AGVELGDQDI  
 VSPSLDSSIS DEDTVTVRTA KQVALVVEGQ IQNVTTTAVS VEDLLQEVGG ITGADAVDAD  
 LSETIPESGL KVSVTKPKII SINDGGKVTY VSLAAQNVQE ALELRDIELG AQDRINVLPLD  
 QQLKNNAAIQ IDRVDNTEIT ETVSFDAEPT YVDDPEAPAG DETVVEEGAP GTKEVTRTVT  
 TVNGQEESSST VINEVEITAA KPATISRGTK TVAANSVWDQ LAQCESGGNW AINTGNGFSG  
 GLQFHPQTWL AYGGGAFSGD ASGASREQQI SIAEKVQAAQ GWGAWPACTA SLGIR

> RXA01879 (1-588, translated) 196 residues  
 VKITAKAWAK TNLHLGVGPA HDDGFHELMT VFQIDLFDT VTLTTLDEEL VEEGSSVKQL  
 SVTGARGVPE DASNLAWRAV DALVKRRAEK TPLSAVSLHI SKGIPVAGGM AGGSADAAAT  
 LRAVDWIGP FGEDTLLEVA AELGSDVPFC LLGGTMRGTG RGEQLVDMLT RGKLNHWVAA  
 MAHGLSTLRY SKSMMS

> RXA01880 (1-408, translated) 136 residues  
 LGGGRDGAWP VHPEVFKKHD ELNPESHMDI SDLSAALLTG NTAEVGQWLH NDLTSAALS  
 RPELRSVLQE GIRSGAHAGI VSGSGPTTVF LCESEHKAQD VKEALIDAGQ VYAAATATGP  
 AASTADQRGA HILTVS

> RXA01896 (1-579, translated) 193 residues  
 ARAALHAWSP TVGVDTDVER WIELDKWGFA RFERGETTHL GQRRDRIRAY LNRELDATC  
 DDIYSGYLKA YEQNWTAYPD AKGVLDRAVA TGAPVGILTN GAAPMQQDKL DRTGLGLPEL  
 VMLAASTLDS AKPRPEMYAR ALTHLGARTA TIIGDDWTND VAAPRELAWN ALYLDRSGTD  
 PRADIHSLDE LFH

> RXA01899 (1-786, translated) 262 residues  
 MSRTLWAVSD LHVTF AQNQ TVDALMPQDP GDWLIVAGDV AEKIPDVVRT LSALVKRFD  
 VIWVPGNHEL FNRKTDVNG KARYRALVGQ LRAIGVITPE DPYPIFGGVT ICPLFTLYDY  
 SFRPLGLTAK QALAQAKIKL DDELAIPYV DIPAWCAERV TYTEDRLKAT KGPVKLVNHW  
 PLVIEPTRL FQKDIALWCG TTATRDWAVR FNALMAIHGH LHIPAETRVD GVSHVEVSLG  
 YPFEKHPPHM KRPWPFVPMQ IN

> RXA01902 (1-864, translated) 288 residues

NYDAYNAMYP RPNQVDENYF FEYNNALFLS LDSNDYLDID DDIAFLRDTV AAHGDDKDWI  
VLTYHHSTFS QAYHMDDARI KYQRERLTPV ISELNVDLVL GGHDHIYTRS HLMNGFTPVD  
AGREAVVGET LNPKEGEVYV LATNSSSSGSK FYDFYDFQLG QRYDTGLDFQ ETVDQKKIRT  
YTAVWNQDQV QDYTNVELTP EGLTVTTKDA VSGELVDQFT LSKQDRDEES EVPVEDDKDG  
DNATGSSNLG LAAILAPVLA IFGFVGGFLV GGGSLAEFFA NLGVKMPF

> RXA01903 (1-279, translated) 93 residues

AHLDDRGIYI IPAQYPWGYE EIINLPARAT STPAVAPRTE AAPATVSDAE VQSLLEYLRT  
NAFVSRHDGD TTKADIFNKH ADTVNKLAL RAP

> RXA01904 (1-423, translated) 141 residues

MSISPKNSGT PNENAAAAQV AANLANLTSQ ATGSMDETNE QVIKSNEHGS DAYLADIKAS  
REMWAKIALD PNQSEETRKE ARENMARIDE YAREHDKDNK GLLQKLAKNK AELIGTVAVA  
TLGVVAAIAN NGKIPMIQLK K

> RXA01905 (1-531, translated) 177 residues

MKASQTLTRN TRARKLGMGI LAATIMATGA LAGTAPQATA AVDTTAPYVS YVVDIPGKVG  
EPIKPQYLTI SDQSAYTVTF KYMPSWLKYD ANKKMLYGTP TEVDVWTPEV HVVDAHGNKT  
VRYFTVVAVP ANTGPTTTTP STSKPSTPQV TTPTTPKAPT LPKSTFDWTL WGSIFGF

> RXA01906 (1-465, translated) 155 residues

MSEFPTPTTF HVEPETLSSA TDLTVDAHKI AELLSTTDY RVFYMPRLAG VTPIVSYLYV  
YDGENFLIVG RSTHVPWEYY VHYPKPSRE FGSAIAVPLD DSDDPYDAE VVALVKQYMT  
PTLTPEGGYM QGFYKGLTFT NHLDIHRPLT QIISD

> RXA01907 (1-612, translated) 204 residues

MSAFDELKRN YRYKFTDTP ANAVTGTGY ANPAFIIISA DAMTQNTHAD SNLITVKEHL  
NTLFPYSVQR KDRAVSEIY TPINLLEDNP ELAQEILDVL DTLSNNAVFN DAHYSELELE  
RLNEYVIDTL AYDMKSDMMR ALVKARPEAD LEAMEELDIA NIQSWINLHS STVSEHNDGS  
VDDAPFNSLA LAEIYLQQLA DHTV

> RXA01908 (1-483, translated) 161 residues

MHSDFEHPD NGYGYTIRQD TDAENPMTHH DTKDAALWVH NRPRRGDTVA DKPEGNEILD  
IFAKFICQHQ DNDDNPFEVW SDGSDASLI RTKAYVAEHH PELIFDISAK TITGYSQGDW  
LDVVCVTAA TCDELIPADS LIDIYRWAF GDVWTVIPDS Q

> RXA01909 (1-879, translated) 293 residues

MANFRSKDKD GNVINPNAST KGVDLVVNVY DSAKHVTEKG NTVHFVDVQV AQIPIDADGT  
RANANLAPQT MPHLHLDTKD GQRNTGVAYS DAQIQAMQTV AAQGRNHMTF LLSKDGETVG  
YSMLVKADVM FPKTKDGKSL PAVMNTKSLQ PSGVPISDAM NIQQQQFMAV AMNRQAAEAQ  
KAAQAQATQA QAPQVAPQPV MQNQQFQAPV PQGQQPAYAG APVYADAVAH ATAQQQAAAA  
QAPQAPAGNP FNQPPAVAAA LAPQTQPPAV AAALAPQTQQ PAAQPQMDNE PPF

> RXA01910 (1-846, translated) 282 residues

MAFPLAVAG TVAPVAAGWA KDKFLSNSQN NQQAQNQQMS FGQVNSAQN SGSENSGFMG  
QYGNLGAGLA GAATGAGLAY SDFEDGQSLS SKARNMVGKG LAGAGAGVFT KLANDAIQAE  
GGSMKASAYS AIASGLGSYL KNGGPGVIKS AMASGAAGFG ADKVHDKLAE SGHEGLADSL  
SGAIQGGGLG YSTLGGVTGA GIGGATGGLA GLAQNYFGGG DDYSNAGASA SGFSANQVNS  
EISTEIPQFA NLGQPQRSEL EQLALPQESR SVDKSYDQGY EA

> RXA01911 (1-846, translated) 282 residues

VFIIGAGLPL LYVPIFVTVI VMVYVALLRY EQRMSGTVYE EADPVMDSV IWEGIKCDIA  
SDIAARAEAK KAKKPVASDA VAVGNYIASL RQHMLVETQR RYHHKLGREL HNDPAQLEDY  
GSGLRDCECR ACVVAQKLG TVHAHGVVQA SARKKDRVII GRADGIDVAG WVNHRQEARR  
KTSAAKQLER DAQRKRTQAE RDKEIERKRR AQEFVAEQSG KAAAAQRRAE KKAQKQARVD  
ELVAQKQAAQ EQKTHCKRDK QRAKKAQGRK VAVDNSAVD DV

> RXA01921 (1-939, translated) 313 residues

HIDIQRLNEK QLFVGLKRLL GLLGHQILES DRLSGDDAHV DTNEDVLDLI AYNVSDVVG



RLLAEDPVYS GSFDLRAGLL STYPETVFDH DGTFRQPSTQ MRKDRLTINT SSAQFAARIL  
APYRPLRDVP DAIGDMPVVS YLYPDAAVAE ATGQKQVNVL DESKKFFYDN ITDPEARAAF  
DEVFAFYADI EGRNFNSHNE AIDTQINQLR AYLNQVVAFD AAGYALYDVR TRFEQIFPKD  
RSYINDATDM TPRAVSSFDD LVALCDDIRG VLDRGLEISS PNHHMVDAM RKQLHYIQAF  
TVPGTHQRRF NDA

> RXA01923 (1-429, translated) 143 residues  
MSALIKSGP HHVVVLNGWF GHAAAGWGAFA DYLDLGNYSW HFWDYRGYGN RKDDAGEFTL  
EEISADIVAY IDSIEAEKVS ILGHSMGGVF MQKVLADSAT PIASLVGISA VAAAGTPFDE  
DSRKLFTSAG HNPDSRRRAI DFT

> RXA01930 (1-951, translated) 317 residues  
VISTNEIENI HSTRRDIEIA LDESSTSEPK RFSEISHLYL ALAEGKISFP ESPSELRELY  
DHLMHGELGK ENELDGEIFR QGPVEIRDSR QKVIHSGFSP ESQIIEGINA IIKLAHSEEE  
SNLVGIMMSH FMFESIHPFY DGNGRTGRYL LGIQLSKILS PATALTMSSA INQFRNKYYK  
AFHAVEHRLN RGDGTPPFVIS MLELLIAAQE GLIENIKQRI DFLASLEDAI KTLRGTSNFK  
NHQINLLYIL GQIQLFGKDE TLSLESAAKF LKVSKATATR YFRTLREMEI VHEVSKRPLR  
FALTDKGREI VGLEVKI

> RXA01931 (1-654, translated) 218 residues  
MSTSFESIPG VTISARKALS TAGFKDLESL AGTNYEEVAG LSGIGARTLE RLQAALVEKR  
MSFGGKVPEA EQRTATWTTL DSAAPEATET SESPEYFIQN LDIPRRITHG RLLLEIFNRA  
TGQKPYVAGS SIVGYGRVHY RYATGREGIT IRVGFSPRKA KISLYGLTSA PASRELLKKL  
GKHSVGVVSL YINKPEDVDL EVLEEMIRIS WEAEPEGEC

> RXA01941 (1-435, translated) 145 residues  
MALTSLLHQL ADKKHSDLSR EDIVPRAFTV PTSTDAHAH QDLEKLNSV LKEQNHLTTV  
LGTWSEFLT NSDNDILRS SAELGLQLEQ VRDKALEVEQ RIKASAQVDL TDLAHEIEIC  
NQHHATLISA IQVRLQSHA ELRAG

> RXA01942 (1-600, translated) 200 residues  
MLRIGLTGGI GSGKSTVADL LSSEGFLIVD ADQVARDIVE PGQPALAEI EAFGQDILKP  
DGTLDRAGLA AKAFVSEEQT ALLNAITHPR IAEESARRFN EAEDQGAKVA VYDMPLLVK  
GLDRKMDLVV VVDVDVEERV RRLVEKRGLT EDDVRRRIAS QVPDDVRLKA ADIVVDNNGT  
LEDLHAEASK LIAEILSRVN

> RXA01944 (1-384, translated) 128 residues  
IRNLRLLPD GRTLTAPAGIS DSNAWNMGD SAGKLDFFDA TFALPEDAFT GVAHAWDTTQ  
STDGEHHITI SREDGGEISR TIRVDNTAPE LTVSGVEEGQ ELRGTVETDA QATDAGAGVK  
SVETLLDG

> RXA01945 (1-1242, translated) 414 residues  
VQLPLTTGSI ALDKGEHTLV IRAEDEVGNR TEKTITFTST DENPISGDYA PSNGATVGVG  
DVKLSARASD PSGDTVKMTF LEADSPKLDs GRVRRMSSGTV EDAGSVSRAE AKMLERGDVE  
KLSSLDGLGM EVTSDAALPY QLFEVDAADA LAADTEVRLN WAGSADGRAQ VIMYVFDGEA  
WVEVDRHLTG DELEEFTLQG VVNAEKFAIG GTVTVLIQHS EGFAGADHST RNSDVTAHP  
DDVARSEYDF TLAWESDTQY YNEEFHEHOT NIHDYVLAER ENKNIQFMFH TGDVVDWDQ  
PAQWATANPE YQLDDAGLP YSVLAGNHDV GHTSNDYTEF SRHFGEQRYV DNPWGESYQ  
DNRGHYDLFS AGGIDFINVA MGWGPDEEI AWMNEVLAKH PERVAILNLH EFML

> RXA01957 (1-462, translated) 154 residues  
MTTRTVSTSA PHVTVNINTA HNKTRTVTNG ARKTNARERK SCISFRVGPE LFDEFKATCI  
DNDISMTKAF EKELRTWVDE HNAGATKKRN THRTYVQAPV GTVATSSIPG LGLFTVFKKS  
SDQMWDLES SPLIAQEPMS NMDMHRNGSF ELHL

> RXA01958 (1-507, translated) 169 residues  
MSKKRDHLTV IPDLESRTHH SRSTQPTTL PAPQLTIITA PDKHQPLRV VKNTTTPSSV  
QPSPINYSFT DPVLREAHYA FQHSELARPT VLDShwVRR QEEFDTEHNA AYVRAADQLL  
SPFDAYILDN GDVYTKTPRA ISAAEQEIL EHLHEHHICW DEEAFLLR

> RXA01959 (1-381, translated) 127 residues

MPHDVYDVEH IISKQPFCSI FFQLPAAALK PTIQKAATNR DLTCLNTEQI AENLQRYLDT  
YSVMASHQRTV IEEVTHVRNP HEPDYEFSPQ YGAHISLIGE SYAVNTATNE PYATDSEGHP  
LALYFEM

> RXA01960 (1-318, translated) 106 residues  
MPQHFSQENY RKAPVIMSAP LTIHDLSTN SKLNLKWLTC TVLNSPNLPE PCITVSVNHT  
EGMSLVSFEG GHGLTEIANT QLVPLLELPK FNPFEALAIH LEAANN

> RXA01961 (1-480, translated) 160 residues  
MTDNADNTTD NVTNNSDTNL DYSFDPLPDE PYAYGFELVA ADAHSDSTTT STDTPETVAV  
ALKTREDTIN WVNTQRAEGK PDEIRINNPI RSERIAEFVH EMIMHHGLVA CMEDLAILIK  
RDKLTQLEAE NAITAWHNLT KESLGQIMGL FYQYVENNTK

> RXA01962 (1-570, translated) 190 residues  
MSDNTQDNPF SIRYAHDPHQ LALNELVDTA DLPAPTSYMK NPWSGDNTPI AEWRERITQ  
WQRTIEIVNQ RDDDDLIHVS FPKLGQHIQL NTDDILALVA ACVTPTANDI EATIEENLHS  
YPHDTVIMFN ADDLDDALGL VVAVKDASGE HSPRAVWRTN TDHGALDETE LARLILKFGG  
SFDDYGVLOH

> RXA01963 (1-684, translated) 228 residues  
MKNRKKIMST LTTVCAVLGI VAAHPFHASA VIGGSVPSTD SVANAVAKIG PGALNCSGVM  
ISPSWALTAR HCVDDINILG DIDTITPITP GIHRNEGNYM GEVYRAPSGD LALININGVH  
KGTIAQLPTQ EYPLGTAAQS VGFGGGGVNI RTAESVNMIL TDIYSVRSGK FHHGVGRSHY  
LLFDYDSAET GRIHKGDSGG PIFIGDEVVG IMSHGTINKN DGSFDDES

> RXA01964 (1-1326, translated) 442 residues  
MTSAVNQKK TTQKVLKPIN TKNYSATDAV QTQGHGSALG SNIGVYTYTA GLDIGNGYVK  
GIIEATGDTT GTSVDVIDMP SAATRMSRPT EVPEPDDTAV AVTGADFFNH IDTNFNSPMV  
KGNRYRLCGT RSLSARGSL EFDLVGNRSK AEQELSKVLV MAVLAACKAVK DFVAAHGRIIP  
QVAVEGDGPV LRVHTYLALA LPINEYVGHR HGKKAQFMGD GAANPAVHV TVNNFETPAT  
VQLIFERVEV IAEGASQAQA ITAGGEVLMN GMLADVRSKG LALEGVTAGD VLQARHTIGV  
DVGEGTVNFP VFTDGRFNHD ASRAYDKGYG TVLESIAQAM DDAGLAHNFN SRKQLADYLO  
RPPSALKRNF YTRVEQHVDQ EAVFFVQDVA AEFARVLSDV GALTEVAFVY GGGSGPLRDR  
LHEALLIKAA EMGSEDTFPV LY

> RXA01965 (1-561, translated) 187 residues  
MAQKQDTHV SEDDAPWRNV RMRFPETDAI VERFLETQGA RGISLAMRQL IYLFVAEYGD  
VEVATVIGLK LVESLQAGAE GSDLFAQLAA GVADVDVAVT RKKAPQIAP PSTTTTRAPDQ  
VNEFVAEAE QPVEESVVEA KVPKQQVAPQ PAQKPEQKPE QKSAQPAQSE PDDGDFMDDV  
MGQAFGR

> RXA01966 (1-657, translated) 219 residues  
VSESENNTTP AVAARDRLV WVDLEMTGLD LKRHVIVEVA ALVTDANLNV LGEGVDLVVH  
ATEEELAQMD DFVTNMHESS GLTEQIRESA VTLKEAEDAV LALIEKHCDP AHPAPLAGNS  
IATDRAFIIE HMPRLDEALH YRMVDVSSVK ELARRWYPRV YYKQPEKGLA HRALADIVES  
IRELDYYRRS FFVAEPGPTS EQCADDAAQAA VDRFAPYFD

> RXA01968 (1-1158, translated) 386 residues  
VLAIGSLALT GCTIERSDAQ EQSSQQSTEV EAEEAQAPVI SVDDGDEDVD PSESVIVKSM  
GDGLSKVTMT NEEGYEVESE LSDDGRSWTT AETLGYNRTY TIKATDKNGE TATASFSTAT  
PAATTNVALS PLADSVVGVG QTIGFRFGSP VKDRKAAQDA ITVTTSPKVE GGFYWLNNSE  
LRWRPAEYWE PGTEVTVEAD IYGKDLGGGV WGETDNATNF TIGDKVEAVA DDATKTMSTV  
KNGELLRTMP VSFGRDTSEW ATPNGTYIIG DRNESMIMDS TTFGLGYEEG GYRTPVKYAT  
QMSYSGIYVH AAPWSVGAQG SYNTSHGCIN VSTENAQWFQ EAVKRGDIVT VKNTIGETLS  
GYDGLGDWNI PWSEWSKGNA DQTSAA

> RXA01969 (1-474, translated) 158 residues  
KCQRRLSQD PLYKNRNSLL TTQKWFSPRQ QESLEQLWAY DKAYGALKLA WLAYQAIIDC  
YQMGNKREAK KKMRTIIDQL RVLKGPKNEL AOLGRSLFKR LGDVLAYFDV GVSNGPVEAI  
NGRLEHLRGI ALGFRNLNHY ILRCLIHSGQ LVHKINAL

> RXA01973 (1-582, translated) 194 residues  
SAMSQSQDDR KIAELEAQFH SLGLNNTLV TLDDAASLLG VPAGIHQIEA EVMLVNFGDG  
ADGMGGDTTK FLHYQPDESQ PYVWVMKRVY SFEAMKKLMV GLFIGLCILI VGGPALGLML  
GGFIGVLIGL CLGTSAAIV GPFGMLRMKA YPPCMDSPWV YMSQEQWRTA MGAAQQTEVS  
FVEHWDNIYG DNLH

> RXA01974 (1-1452, translated) 484 residues  
MTQVVAGTLV GESINREIDE DKYPYLSSYA APVAVPVREI IGREEVNKI MAALMRPEIS  
NVMLVGPAGS GKTTLVQQAL VKDPERNYIE VDVAKMVADL STPAQMAARI KGVFEDAIAY  
RKHEGHELVL FVDEFHQIVQ LSNAAVEAIK PILAMSGVLG VRVIAATTLE EFHEHIRPNQ  
ALTERLQEI LTPTDQKTTV AILRGMDRY GVSDQFYDDH VFEQIYSTTE RFMPSSVQPR  
KSIRVLDAV GWHRLSGKPM DMDLLGDVLH DAIGVDIAFK VDGTSIKDKL DEKVMAQSLA  
TTVVARRLQL VVADLHDKSR PLSNFLFTGP TGVGKTELK QLARVLFQDD TGRLLRFQMS  
EFALESSDL FRSELTRRVA DQGNAILLD EVEKADRAIA RLLQVLDDG RLSDDYNDRE  
SFLNTYIVMT TNAGSEIFET ISNYATDDTG DGRAIKDFVK NIHTSIKNG FPELLGRVD  
EIVP

> RXA01976 (1-1521, translated) 507 residues  
MTQTLAGER IVTTAELKAM LARGDKVFLP GVAARAPEIL DNFDPADRAR LDVPAADNEI  
VSVEFSRRDT VQCISIARD HLYITDDMIP THNTSNIIFL KSTDETMKT LVDWSGERHV  
VRRNSKTVTR DLAQLVMRTE GKVSYTSATE KEPVVSYNL NTLPSQNAIV FRAGQYPVWS  
RNETIWPMSE MLFANQIIQP GREYSLQITP TLSSANEFDV NQNAPDFMAM LEKRMAQSIR  
TQRAVDIYKK ATGLDDSDIA RLDMDVSAE IMDIVDTMIA KDEYDDTPDY DEGDSEVMNA  
RDFMESEYDV FDDEFEDSAQ GFPVATGTV KKKSLSEAE VNDEFIHDQE NAEHKLADMR  
LKRYAEGKVS RDMQLAQFGH ILQDSLEDEL TAAYDESLHA FAQDPNFRVT ANNGLVNAVD  
GTVLIEALSQ EDIALMRAQA GVEQSRVYSE GEEALSGTED DPLSAMGKYK TTRAFRIMLV  
ELPHWRDLAQ GHFDKEVARA FRRIEDA

> RXA01977 (1-576, translated) 192 residues  
MLRTLFRVKI RALLLVLMIA PTPLVEGLTS TAMIVSVVIL AIYMAITMYR VVHGRHEFAH  
IARRMALYVN KTSSRFSVVI AYVVLIAIYA LLIPGLVYSV TFGFIVPSTP NTFSDAPAWI  
MCVSLLLIAV ASFITSIMDD FIDGILTDFY DEDNADSPDS PAEDIATRPV ESATTSALAG  
FAVGYICGRF NR

> RXA01982 (1-1158, translated) 386 residues  
MATTSLPPTI TPDSEETVEK RHSLTPILDS LPCESVPYAL AAGEGQQHQL GPYHLTVMSR  
PEDNGGIFSL ARVSAGKTPA TRFFSVAGPT FLYMMEGRLT LWFADGRQEI IAGGSATIPT  
NTPWSFACEG LVNSALVYYS SSNAFLHAAE KLGTSFSFST FRVSGEVTGI PYEELEDGCF  
TFYERDHLAE LGPHFDRLPE DMKAFALNDG EGDRLEQFEQ INSFVCRPRH TGNQFLAMQT  
KGAKTPYIPR HFHRLHTENF ICLDGRVKLH VNGQEILSR GDYVHAPAGT IHSFAFAGHN  
TQMLGVLTTE VFEKFFDYIN TPTNARVQLE DGGKPFPPAE AFAKVQAELD VVVVGPPRIS  
TLDVVTNSRF EPINRTITYR ALDANQ

> RXA01987 (1-213, translated) 71 residues  
MTFPAQSRRL ARSTTDKWIG GVAGGLAETY GWNPAYVRLA FVASVLFPLP GSQILFYALA  
WLIIPSRENRF

> RXA01988 (1-318, translated) 106 residues  
MIDPLTPVVP ITTGTSVAEL YADAREHLDN GATQVMIPVI SPSNLTLVV ALGNQEVDA  
GHSEGAQVHS LLEIHTPKRS WPLSELYIDD NEGLAQVSR FARLVG

> RXA01990 (1-999, translated) 333 residues  
TSDHVAQFGM ATASAATLPD SIVTSVSYTL NGLSFSDPVE LGISDNDKRE ELLGDITKGE  
LRLQMEFSIP DSATAEDEYV FNLTGDGLRF FNSNDRTVPV RNDAGIRVAD LLVSNNGGTRG  
TLTNFSSDAG TTSRTAALDM ELYGWVSSAQ QTGERPIQDW TVGKTEGQVE NKVVRYGVAG  
HPWIISTVQH TWVKSTQTVS HFRSEQDWKI NQPPAVDMGA LAYAAPLGVV VGHANVVISN  
NNGAGFRGAL VNTPTTRDV ILNFTAADGA TLRERSGGGF EDFDVFSEVP RVEETSTRIS  
YSYKNSFEYD EFVAAFPEYR RSCVGTNRCV FSG

> RXA01991 (1-795, translated) 265 residues  
MTNLLPHFPS TDVAWEPTV VYSADKTTAT ATFKNIPSDI SFSWTGIEAL EPFSPGKTFF

HKVQGSVGEP AGAFTRDNYF TEGELYKHRH ADDLLSGDGL FGPNITDGDG NLPSVDDGKD  
GDDGSDGSDG RDGVVAIDVV DNADGTVTVT LSDGTTFTLD AGQDGDGDLG DLDGTGLTLE  
SATPDEDGNI TYVLSDGTEF TVRNGVDGSD GKDGKDG VNG TDGVDGSDGK GLVEVSRVTN  
DNGSVTITYE DGSQITTKPT PTNWL

> RXA01992 (1-450, translated) 150 residues  
VYCPFCQHDH SKVIDSRVID AGSAIRRRRE CSKCEGRFTT IEKAVLLVVK RNVTEPFPSR  
EKVVTGVRRA CQGRDVSDA LKRLAQQVEE TVRSNGSSQV RANDIGLAIL DPLRELDEVA  
YLRFASVYKS FDSADDFEKE IRLMRRRGRD

> RXA01996 (1-537, translated) 179 residues  
MSKLTGTWTL DPAHTEIKFV ARHAMVTKVR GEFTEYTDSI VVDAENPENS SAKVVIKTAS  
VTTGNADRDA HVKGDDFFAV DKFPEMTFEA TSFVIKNENE GTVTGDLTIR DTTKSVTLDV  
EVGGVAEDPF GNTRLGFEAS TEINRKDFGV DFQAPLSTGG VLVSEKIKIE IDGSAIKAA

> RXA01999 (1-471, translated) 157 residues  
MTLPTPTHST KGSSGRMKRM ALIGSSLIIS MGLITACGSA AAEPEAPAPT VTETVTATVT  
TTAKASTITS TVTETTS AED LAQEIVKPAA VEEYSEPQVN TPQQFAA IPE PAPA VAPAQT  
YYANCAAVRA AGAAPLYAGS PGYSSKLDRD GDGIACE

> RXA02001 (1-549, translated) 183 residues  
TRDPIVA AVG IVQAFQTIVS RNHN PVEDLV VSVTQIHTGS ADNIIPETAY INGTVRTFNK  
DVQAMVITRM EEIVAGQAAA YGVEATLTYN RNYPATINDA AKAAIAAEVA GEVGLGVNPN  
GSRGMGAEDF SYFLEKRPGA YLFVGN GDSA GLHN PAYNFN DEAAPYGASF LARMAERPLP  
LKG

> RXA02004 (1-207, translated) 69 residues  
RVGRLMRQNG ILIIRS RKF K RTTGS DHTFN IAPNFLQ QDF MASRPNQKWA GDITYVWTRE  
GLGLSGRHS

> RXA02006 (1-495, translated) 165 residues  
MTVAHKRSLT WIKRLSATTF AAFLGIQLVT PAHSIENTTQ IPESELHNLG LTDEEIQEFN  
QYLIDESLFQ ETVETSPIVV SDNEDAAQDP GFGLFTTNPV KHTDEHIGAL YFSDLPGISN  
LTCTANYIGG KFWTTAHHCV EGRSRFVGFI EQSDGQYAGI EH VYT

> RXA02007 (1-429, translated) 143 residues  
GITANYAFKG KKVVAWKDLA GIGFKGARTF ARPTSDAEVT LPGVTFNSLP RLEAASHGRI  
PDAITAŠKEA ADGKV VVQVE DGYSVMMSKE EYLERQKALG KPVQLNFDDD TDGNTTQTES  
VESQETGQAA SETSHRDNPA SQH

> RXA02009 (1-123, translated) 41 residues  
MTMYNAAKTL VPQIVAFDDT AIIALDQAAE DEF RKANYPE V

> RXA02011 (1-318, translated) 106 residues  
VANDFIEPND APDAPDNGDS GSSGFVDEAK DKTRSAAQGL GYGALRVGFG TAALAANGAR  
SMGNLAKNLW TPMMGLALSA GTGISAATGG MITARVGAML AGTGSA

> RXA02013 (1-549, translated) 183 residues  
MTESPD LAVS FLAAFN DIEA HLRTQLRAKR SDSFRWMVRI AEKQHLISKE QAETLDAFAE  
LRNAISHGQY NDLRPIADPR PDTVD TIEKI RSL LNPPIA LNVLP EQKVR SYSLED PVS  
ALEVVHTTEI SQFP IYKGTE YVALLTTNTI ARWVASDLHD NAQLDARS IK EVLDYAESSD  
TAV

> RXA02014 (1-396, translated) 132 residues  
ISLQLQAIST FPTDPEGVWT SFNQLLFDRG LGSLVPALAP ESLDDL PDEV SALRRTEKN  
TTTTLINLAKQ HGLVHHDIAP GTYIVGLITI SRPPITALAT ISEN SHKALL GLYLSGLKHG  
MMANIGEHDG KS

> RXA02019 (1-492, translated) 164 residues  
AGTKVEASDL GLQAIP TSLP PSTSYDSIDD VVGLVAASTL SSGEIATKPR FVGTELINSI  
ATNVT DSSLV EEINMVPLSL AEPSVIPLLQ HGDTISVVSQ DPDTGLPENI AAGGTVILAG

GTDPSTILIA LPQSIAEKVA AQLSNTPLAV VLTGDRANNY TTEE

> RXA02021 (1-948, translated) 316 residues

MSENIRGAQA VGIANIAMDG TILDTWYPEP QIFNPDQWAE RYPLEVGTTR LGANELTPRM  
LQLVKLDQDR LVEQVAVRTV IPDLSQPPVD AHDVYLRLHL LSHRLVRPHE MHMQNTLELL  
SDVVWNTNKG CLPENFEWVR GALRSRGLIH VYCVDRLP RM VDYVPPGVR ISEAERVRLG  
AYLAPGTSVL REGFVSFNSG TLGAAKVEGR LSSGVVIGEG SEIGLSSTIQ SPRDEQRRRL  
PLSIGQNCNF GVSSGIIGVS LGDNCDIGNN IVLDGDTPIW FAADEELRTI DSIEGQANWS  
IKRESGFHEP VARLKA

> RXA02023 (1-768, translated) 256 residues

MAPKQTPSPE KNRNLVGPVL QRRQTEGTFD QRLLEMRADH NWKHADPWRV LRIQSEFVAG  
FDALHEMPKA VTVFGSARIK EDHPYKAGV ELGEKLVAAD YAVVTGGGPG LMEAPNKGAS  
EANGLSVGLG IELPHEQHLN PYVDLGLNFR YFFARKTMFL KYSQAFVCLP GGFGTLDLDF  
EVLCMVQTGK VTNFPIVLIG TEFWAGLVDW IRHRLVEEGM IDEKDVDRML VTDDLQDAVK  
FIVDAHAGLD VARLHN

> RXA02032 (1-570, translated) 190 residues

MPFLQISLLS IGVAADAFAC SVVRGTAIQV NLFKRALVLA GIFGVFQAAM PLIGWFIGRF  
FAGITFIAEI DHWIAFALLG IVGTKMIWDA FQPEDDETIV DDGRVQFRPA IILGLATSID  
ALAVGMGLAF VEVSIKVAL SMGSITFALS LAGAWIGHHG GGKFGKWATI LGGIILIGIG  
ANIVYEHLA

> RXA02036 (1-381, translated) 127 residues

VHIPFGHLAD TVSWDCGGGS CATNDLVSLE MPAAFMSTLA ACVFGAWAIG LIAPALFIAV  
TAWAFRSGVQ AAIADGYTSA TSVGFEMTVS LILFIIAGLC FLGWIPMFIN NRQVARKVRE  
RAAGLSN

> RXA02039 (1-810, translated) 270 residues

TSTSTTAPLW LVGTLVWLAV QAVMHDGELY HVEVPTIALV IGFGAQLLIG VMSYLLPSTM  
GGGASAVRTG THILNTAGLF RWTLLINGGLA IWLLTDNSWL RVVVSLLSIG ALAVFVILLP  
KAVRAQRGVI TKKREPITPP EEPRLNQITA GISVLALILA AFGGLNPGVA PVASSNEDVY  
AVTITAGDMV FIPDVIEVPA GKSLEVTMLN EDDMVHDLKF ANGVTQGRVA PGDEITVTVG  
DISEDMDGWC TIAGHRAQGM DLEVKVAAPN

> RXA02040 (1-528, translated) 176 residues

YIPFVIWSDL GEAAEGENFA RFWSWLKSRD DKARQQGQTF GVFCYASNGE NHWMLSTARR  
FFGKVKGVDP EQEIRSFIS DQWDMFAVA RSQLVGPGGL GLKQLAPAAG FHWEEDDFAG  
EDSLHAYLIA STAAEPEAEA ARAQLLSYNG DDCRATAAVR HWLRQGARTA PVLGNI

> RXA02045 (1-261, translated) 87 residues

MNFATIFGSI FEVTLVGILL GAGLPALFAL GIRFAHSPSS NGTNALGKIA STICFAIIAV  
AIIAGILWVT KATIIQYSGF DIFGTEG

> RXA02046 (1-264, translated) 88 residues

MKETLTTGLT HQMTYIVPAN RTVPHLLPEA AEFETMPDVL ATGYMVGIIE WACMELLRPH  
LDDGEISLGT HVNFSHAAPT VPGSTVTI

> RXA02049 (1-447, translated) 149 residues

VRYLTATII AGLSGFVVII IAAWALGDSS QLSEEFYAYW GLFFAGTGVL TGLTQETTRA  
VTAGSRGGSR GGRAGSVVGF RPFLFSFVVA AIVLVVLGAS APLWIGQLLS NLQGVGVLL  
AVGLASYAIQ ATISGIFVRL PIVEKSMR

> RXA02050 (1-372, translated) 124 residues

LAIWVAVGLV GAGLAWLVGP WILDVVLQKE LFAVPGWLLA MLTLGATTTA SLMVSGCAAI  
AFERHGIYLT GWVVATVVAV GFLGPFDFG VAAGLALIVG PLCGLLVHMG AFGVGGDRNRV  
LTAG

> RXA02051 (1-498, translated) 166 residues

MVIRALQREE EIVLLSAGAL GIHEKTVERT IRGKRIPGTQ KTVHVQYSYT GKLIGIDASDV  
EIKSAGDNKL SITIEFIFI GYDDLKFKTI AEDDGWISFS TDDIDTAEVV SEIMSQENFV

EQVTTNREML EDQAVDFYND LLHEFTEKLD TDRYEDTKIE LEFEFE

> RXA02053 (1-579, translated) 193 residues  
MSLSVVEAIT NRRATRKYTD EAPTPELIDK IVDLAEAPS AFNAQQREIV VITDPAQKQK  
LYEASHQKQF LTAPVTFAV ARVENEPEDL EEILGTERAE RVAGFINGRS IQQAREATLR  
DASLAAAFLL LAAQAEGLST SPTTGWDEEK VKEAIGLGGR EDRAIALVIA TGFPNEQPEH  
PGRLQNRRIID NSY

> RXA02057 (1-531, translated) 177 residues  
MKRICAVAIS SVLLLSGCSS TSTTQLEGFD GRSAQEIIITE LDQTPVADRA TNLMASIRAD  
ELILSDQSGQ LSIDMPADEF YISAAPYTTT THECFYHSLT TCTGELANTP VKVTVVADNG  
ETILEEDTIT YDNGFVGMWL PRNIDATLTI EHDGLKSTQP ISTGDDAPTC ITTAEAL

> RXA02058 (1-552, translated) 184 residues  
VQIVSPNGEI ESFVLGKLYE TALVERGRSA SVQLIDGDL EQLSMLRDDS TDLVIACSGQ  
LLEYNPDILA SEFAVEYANQ TAFDKNSGEW REKVYDALQG SLPDSIVATD PSNAIGCKDD  
TSLPQNIVPI YRKPNIIDRN RDTLNFVSGS LGTSDLEALV KDAQTTGTTS ETALDFLLSK  
GFSR

> RXA02059 (1-495, translated) 165 residues  
MTQPRPDAAVS VSLEKKRPEG WPVGSFETYP EAQAAVDLLS DNAFPVTELT IVGVDLIEVE  
RVTGRLTWGR VIAGGMASGA WLGLFFGIVM ALMSGFWFSS IAAGIGMGLV FGIVGAAPVY  
AASKGKRDFST SSTQIVAGRY DVICSPEARAR EARDMIALKT RDLRQ

> RXA02066 (1-492, translated) 164 residues  
MFNSDTTANL QAKSRDRAGS KAKRSRPSFD SVARDVLDVR TKTAQVKNKA KEFSSVDHLS  
ADAAAMFVDN ELSRGAMHRA RLHIVHCAEC REEINRQRET VDYLRSCKN EEVSAPMDLK  
ARLASLATEC MPGPGAENLA MQRPESEFAK VESVVRVRK NQGR

> RXA02067 (1-456, translated) 152 residues  
VGWGEIFLLV VVGLVVGPE RLPRLIQDAR AALLAARTAI DNAKQSLDSD FGSEFDEIRK  
PLTQVAQYSR MSPKTAITKA LFDNDSSFLD DFDPKKIMAE GTEGEAQRNK QAADNNANV  
ERPADGSTAR PTQNDPKDGP NYSGGVSWTD II

> RXA02069 (1-579, translated) 193 residues  
MADFNRSELD SPLFGSRKRF KFDDDTIGAY AEKVARFFGT GQYLFWQTIF VVVWIFLNIG  
GWAWSWDPYP FILLNLAFST QAAYAAPLIL LAQNRQEDRD KHTILADRRR AEETKADTEF  
LARELAGVRL ALGDTVTRDY LRHELEDLRG LLDRIEAKLD DEAASRIADR HEQHSGGPQD  
LSDPTQGDVA DEF

> RXA02070 (1-1098, translated) 366 residues  
MTQVTESAVR SALSERVEDPE IGKPITELGM VKSVSIDGSD VQVEVYLTIA ACPMKTTIVT  
NTEAALKDID GVGQVHVTTD VMSDEQRRAL RVSLRGETSE PVIQFAQPGS TTRVYAVASG  
KGGVGKSSMT VNLAALAKR GLSVGILDAD IYGHVPGML GSDQRPHQVD DMIMPPQAHG  
VKMISIAHFT EGNAPVVWRG PMLHRAIQF LTDVFWGDL ILLDLPPGT GDIAITVAQL  
IPNAELLIVT TPQAAAAEVA ERAGTISVQT NQKVAGVIEN MSAMVLPDGT TMDVFGTGGG  
QKIADRLTAV TGEVVKVIGS VPLDPNLRIG GDVGNPIAIS EPHSPTAAAI NEIAEHLAHR  
KVSPTK

> RXA02071 (1-453, translated) 151 residues  
MSNSPTDVST SAPRIMIAPD SYKGTATASE AAQYLGEGLV EILPNASITL APMADGGEGT  
SSVFGGQVIT LPTTNAAGRL TEASYTLDE TNTAYIDIAA ASGLPAVADD LVPTTGDTYG  
TGVLIADAVT RGATRIALGL GGSATTDAGS G

> RXA02076 (1-534, translated) 178 residues  
MKSPFIFDVA ALLRGSALPE HLTQSGPSPT RIGPEMIAIP EGGKVIVEAQ IIPLGGGLAV  
EADIEAQLLG QCSRCLRELT PTKTLHVSEV FAADPDFVTG EDAADDEDEL PMVNQDQIDL  
LQSVIDEAGL TLPFNPVCEE LGYGACQDDE TPAPDGVSEE VEDEEKVDPR WAGLEKFL

> RXA02080 (1-807, translated) 269 residues  
MSIEWLQIVE LGAIFGAGFL AGSINVIVGA GTLVSFPILV FLGLPPLTAT IANTIGIVPG

SISGVVAYRR ELHAHVKTIR FLLPASILGG ITGASLLLHF SADVFTAVIP WLIGFGTLLV  
IAGPSIKKHV GAHTSGGISA GFRQLPFPSR TTFIVSVCGA LLLGMYGGYF SAAQGILLIA  
LLGITSTLQM QELNAIKNLT VAAVNLIAAS VFIIISPELI SWPTVALIAL GSALGGYIGG  
RYARRLRPSV FRAFVVIVGI TTVIVMTIG

> RXA02081 (1-1629, translated) 543 residues

MTLSGLELLE FERRTAAMET RLGRHNRGAG GAFPEAVVSR SVELPLFVQA RNFLNNQQIR  
AQVHRRILEQ LPTEGEIVLL GHSLGSVIAA DLLRRLPPEL TVKGFVTIGS PLANGQFNVD  
DLFKLLRTPL SNVSWVWVNF SGSDPVAAKR GVSVAVPWVL DFRVKTSVLP GPGHSSREYC  
ANDAVAEAIG FGLEGSRKE IVLAEKNLQI PLNDAEIFVL QALRYCYLIL QRLKGDEALR  
YEYALRETQD RLIEEIKSRN AEEGRPIPKI IARLDFDNGD PNAAAPVPGL SPFMPKEQAI  
ERLLEIIGQN LLLPFEIEVP EKIQREALRD FTAETQLGST VGADIFDALQ MAVGVVSGSA  
KSNWRKWGAF GVGAAALTA TGGALAAV TVAGVATVAS TLAAGFGPGM MGGLVTAGTL  
LTVGGGSLTA GVLSSVNTTE EIEALVVQKL SLAILWQRHE IDRTHEVWEE FAEAEERLIVR  
EHTRVKNVSD SSSPILKAFE QQRSTIERAL KYLSDHGMEP GWFEELPPA PTFPLKLRAK  
KTD

> RXA02084 (1-345, translated) 115 residues

VIIIASVVFL LVGAMLANAA AALFSASEPF GRISYLIGLP NEDDFVPYSL RFVAFFPLML  
SASMAASFFG VWAVLIIPFG YFPSLMMVHK HNKQVQRTWD SVTVADFYED STPLV

> RXA02089 (1-471, translated) 157 residues

MSSIYSATRY AAHFKSVFPT ALDDIQSMR HPRSLARAIP TWRPPSIPLP SLPGEDPLTL  
TLRHRAGPA ARQIREFGE QREPAYLITI RITSPEGFKV STRLAEGWIR AILSTAHSCT  
VHQLTDEPAP TFCWLVAHF DPVRSPSFLF EYSKSA

> RXA02090 (1-801, translated) 267 residues

MSFFEDIAAG LDSDGIESRV NGDTMFVPIT SDLEIQFVEI DSLLPAANVY IAAANVDEDD  
DEFEAVLVSV VFSVEDAVAA VAKHVATDQV VTLRLDLLEG TDERIQDLEF FQDAVNANLV  
RAEVGQNSL QVLVEVEDGV PTATVNFIAI GESFEDLIDQ AIEELWESDG DAVLSDEDRQ  
RMFADLTSEL EFVTDEVLDD GTFTDFDRLF DILSLADDQA EDWEAQLVPF EDEEFDEPDV  
YDLFVDDSEE DDDDLDDDED DEDDED

> RXA02091 (1-651, translated) 217 residues

MSIWKRLLVQ YPRFADTLTA QPITLEELA TPEVILEAVA KGQEIFGIEQ PKHAAQLWFH  
SLCTAIVGPA VTAMVEFDVI PSLDIRRGQL HNIDGYWFGF RPEEMLVDAS LHLSGTQFGE  
SIRVVIDALC AATDLRPAPL WAVASDALGI AASGAGVEAF EEEHAREVAE ALIEGMNSVN  
SVSPSPFNDD DYFIRAGCCM IFHSPRADFC TSCPQKR

> RXA02094 (1-717, translated) 239 residues

MAEHNAIITD AVHSDPAVLE DNAGFSGKYL IRALDKAAHM QTGAIEGYIS WLRKHNPEKT  
PAQLQVLVDK HFMRLATGSG AGVGMAAAVP GIGFVTGALA VGEASLVFLD AAAYTMSA  
HLRGIDIRHP ERRRGLILVV LLGTAGKAIV DAGVGDLISK NHAPGIAISR FNIGGLMEVN  
GRLMRYAVKE VSKRFRSALI GKILPFGIGA VLGTMANRKI AKRTVGNAYD SLGPLPTHF

> RXA02097 (1-3372, translated) 1124 residues

MPAGIADMTD SLLGWASQTE LDNLQRLAGV EYFPQIQLRH DELERIHRFY GTFLSRQVGA  
GASLGDLFEM TPCLTVTTLV SRASRISDPA DFFGEYIGGL GLSAEHAADV EGLTEKLFAQ  
AGLLVPEGIA SPLELLSIHA GISNHEVAHV LDEVNGTTE YPFMFDAVLR LTPWAQTLI  
GGVQELIEFA TTHRTSWSDR QRESSLPAMI DEIVVAELRE RPVGTAADREN SVGVALREL  
PRLILDAERR KVCLRLPEQR VSDDEINWRV SLEGTTRIFS TRRAWGDTSG YSEALDITVE  
RQIRETTVTD TSNQITWVVP VVDFNDPVLV FSARGENLTD KVSLHHQEIY VLAPAEAKLE  
DMVTGQPPVP IEQFLVEGWN SWVCSRVDAR GLSSSLKVNKE VRCIDPRRRV AFHHPAELVP  
HVRISISGLPV HAQSLIAEFP PTLSGQDETW MLSISAFAGV GAAGEEIAEP EPLEVPADEG  
LFAIFDPEIY DAPWVGEYLV RLRGPRNESF RPEFAIVEDM TTEFEVASGA SFRIPTTTGL  
SEASLRVRSG EKHFTEAPRL VTVEATDPNA SFVVTDEGD QMPLRFVPPQ IAIELPLTTE  
PPTWRVTRTV CGPRDLGAG ELRIRTVGDV GPKVSVRNH HGSPLRTVKM VTPDNGRTWI  
ASMKEIAAST FVMPRGSIEF EWTDRKVDNR VSVTIAVIDK TENFTGITIE DGKLVFEELA  
AGRQLAAWVW PQTAPWVSAV ELAVTGPELE LPEVLVGAGN LIVQLHTADP FTTSVTPLSP  
GKAAVTVEQE GYSAQTEY AQLSAFFGGE VEEPPISDAV VPALWDVSHI WTEQGNTEHL  
PVVHAALRSS PAAALKGLSA SLVPAQALPG KVISSGLAAS PFTTESPATE VHTAWIGTL

QLLGALPSAF KEAEELGNRT PLLPILGQLE EVAGKNILST LATGRDSTLD TACIDQSTVA  
IAGMNETQQK ALLDMFFSNA DIVPGPLMED NTRLMAVFET FKKRDALREV LQTEGLIKTA  
VELLRAMRG TQRQLYSSARI RFDKLDGVNT DNPENMWALT PVVSLVFALS SRLHAHELIG  
KTRTLDRASA GWGRIADLVP DLVTGDLISA EAMVLGARNP GLVD

> RXA02102 (1-1158, translated) 386 residues

MTSPHSFSVT PIRTMADGTI KQIHPFTGTE VWTVPGRGNR PLSHPASTIV ELSAHDHTSY  
CAFCSDNMLS TPPEKSRIII DSSGDFDILP GALPGELSET TPEFRRVPNL FEIVSFYDWH  
QNFGFDMDSE TAMRMAQYLA IPEGREHVLA IVRTRLAAG EDPAHMTDGE LLEKAPSYFA  
GGHDVVIIGRR HFVDDATTSD QCLASSGTLTV KEHEAFIRLT VDGIRDLYHR NRYAPYVVA  
QNWLPKAGAS FDHLHKQLVA IDERGRLIAD ELHHLRGPN MYNELAVDYA GYHNLIIAEN  
DHAVAFAGFG HRYPTIEIYS KSAIPEPWLQ SDEEIQAMSN LIHACHAATG ADVPCNEG  
HKPIDVDMPM PWHVMIKWRV STLAGF

> RXA02103 (1-396, translated) 132 residues

MPKIQFDVLV PDTDSIALAG RFTVVANLLI EKGLMDHGVV VHDPAKIAE AVEEQLRQTY  
RDEHEDADLE ESSVNRYLIE VDGVKGSVNQ VTMIFARLLT PPAELPKDAF LLEQELAYEV  
PAVYPWTVEI LR

> RXA02104 (1-420, translated) 140 residues

HACAQLEVDG TKPGMGAAAG IAIGLTWLST LMHGNDQQIH ILPGAPLIAR SNGIEDALPE  
TDLLITGEGR LDSQSFTGKV VGTLHGLAKA HDVDLAVAAG IVEGGIPDDF LAVEMIKSSD  
VAAQLRDAGR RIAQEYVAQN

> RXA02107 (1-342, translated) 114 residues

MDLHKVAAAH AATLPLSTKE FPFGEPEHEVY KVRGKVFLLL TILNDEPIIT LKSDPEIGAS  
LRSGFPTIQA GYHMKNVHWL SISDGERITK DFIEGLVEES YELVISTLPK YKRP

> RXA02108 (1-435, translated) 145 residues

MTIYAPRSVA HSIPVECHIV EHGRNFTVGS LSVEVLGSEH AMLTHSMPIA ENVGYLINGR  
VLHPGDTFQP IKDVELALVP VNGPWVKMLD VEGYLKKFPP KRFIGIHDGI VNRGLAINK  
KFLTHLGETY GSEYSPLEEG ESLEI

> RXA02109 (1-921, translated) 307 residues

MLAVLFGVVA GAIMPFQTSV NNRLRQSVGA PLLASFISFL VGTFSLLVAT WITSGHPYPA  
LGNTTGQPPW IFTGGMLGVV LLTGNILLFP RVGSVQTVIL PISGQIIMGL IIDTTGLAHS  
PQAPLTLFRV LGAAAVLVGS LAAVGVFSKK NIGQTQSQGA SIWLWRLFGV VMGMCQATQV  
AVNGYLGTVL GSPIESALVS FAVGTTALFI LLLVTRTKWR GINGAGKKNP WWMWIGGVIG  
ATVIFSTAYL GPIIGTGTVV VMMLGMMMLA SLMIDAFGIL GSPRRHIHIA QLLGLVVIIL  
GVTMIRI

> RXA02114 (1-486, translated) 162 residues

SIGYAWTTAF HALTPGLGGI AIGIWLLGGV LGGLVIRKPG AAIFVEVVAA CVSAALASQF  
GISTIYSGLA QGIGAEIIFA LFLYRRYSLP TTMLAGMGAG GGAIFLEFF YGNLAKTMSF  
NIIYSTTVLI SGAILAGLLS WYLVRALART GALDRFAAGR EV

> RXA02117 (1-474, translated) 158 residues

VSTDPEEFDQ AETLDQLAYE IILLTRYGVQ NTPTNKREAI MDRSALILLT RLDAQGPMTV  
NELAESFGLN VSTVHRQLKA AIANGLIEVV DDQACPAKLH RPTELGKEKL QQELLARQQD  
LTRILHDWDE EDIKTHAKLL RKNESLEEY LDMKWPRP

> RXA02121 (1-705, translated) 235 residues

MITSPFEREL KLLNEGELGI VQQLVESSNI GFIVDLELDG DYGWAVYKPE LGEQPLWDFP  
PGLYKRERAA FVISEFLGWN IVPPTVIMHD APAGVGSVQW FIENNGEHYF PLFDTRADLH  
PQFVRMAVFD LLCNNTDRKS GHVLLDGDHI WGIDHGLCFS VEPKLRTVIW DFAGCTIPDD  
LVTDVEQLLE DVPEELHQLL HPAEIDALQR RASRISRLPF LPQAKSHRQF PWPLV

> RXA02123 (1-1371, translated) 457 residues

VWGVSLPPNV QTVGELKAAG HIYRPLRVEI RDNLLAKLRS GEDPWPGLHG LNYTVIRQLE  
RALIAGHDIV LLGERGQGKT RLLRTLITLL DEWSPPIGR DVPEHPLAPN VEISDDQPIE  
WVHRDARYTE KLATPDTSVA DLIGDVDPMPR VAEGRSGLDL ETIHYGLIPR ANRGIVAIN



LPDLAERIQV AMLNVMEERD VQIRGYNIRL DLDVLVVASA NPEDYTNRGR IITPLKDRFG  
 AEIRTHYPLE LDDEVAIIRQ EAELVAQVPD ILVEILARYT RALRESSSVN QRSQVVSARFS  
 IAGAETVAAA ALRRAAVFGE DEAVARLVLD EAAVEVLGGK IEFESGEEGR EWEILDYLLR  
 TATAEALRST LRSLDLTPLI AALDGSITVS TGTNITASEF LASLPELGES TLYDDIAQAF  
 GATTTPSTRAM AIELALEGLY LSRKIAKDSG EGETIYG

> RXA02124 (1-1956, translated) 652 residues

MATSHSRPRR SRYGRYTGGP DPLAPPVDLS DALRDIADDV MAGYSPEQAL REYLRRGARG  
 QEGLDDLAWR AAERRRELLS RNNLGGLTAE VRKLLDEGLK LERAQLARDI DMDDTDRAFR  
 EMQISNLPES TAAAVSEINS YDWQSQEARQ KFEQIRDLLG REMLDQQFSG MKQAMEGASD  
 EDKAAIAEML RDLNDLLSKH REGTDTPTDF ANFMAKHGEH FPEQPRDINE LIDALAARSA  
 AASRMFNSIS EEQRRELMKL SAQAFGSPEL QELLGDLGN LQGLRPDLNW DGSEQFSGDE  
 GMGLGDGTGA MQDLAELDNL AEQLSNSHTD LDIDAIRRQL GDDAAVSAET LAKLERALRD  
 SGLLRNPDG SLKLSPQAMR RLGKALLDAA SEQLSSRPGS RDSRLAGANG EATGASRPYV  
 FGDTQPWDVT RTITNALQRT AGTDTEGPLR INLDDVEVIE TEARTLNAVA LLVDTSYSMA  
 AEGRWVPMKQ TALALHHLVS TRFRGDELAL ITFGRHAQNM DIEELTALPP VHEQGTNLHH  
 ALLLAERFFA RHPSMKASLL IVTDGEPTAH LEADGHAWFN WPTDPETMFK TVTQLDKVTK  
 RGTHTTLFRL GHDQGLEHFL NQLADRVGGT VVAPDLGLG AAVVGEYLRH RY

> RXA02125 (1-801, translated) 267 residues

MVATSQFIDD SEAAQAVRAA IVAGYRNIDT ALAYGNERGV GEGIRTAGVP REELFISTKL  
 AAEEKDYDGA VAAIDESLAK IGLDYVDLML IHSPQPWSDF RGGDYSEGNR EAWRALEDAY  
 KAGKIRSIGV SNFLEADLEN ILDSATVAPH VNQLLVHVG N TPSELISFCD SKGILVEAYS  
 PIAHGEMLKN QQVKAIADKY NVSIPQLCIR YTIQLGTVSL PKTANPDHMS SNAQIDFEIS  
 EEDMAALQEV TARDYGEHSG FVPYSGK

> RXA02129 (1-234, translated) 78 residues

MKIIFKMASN KFIDNKKGLA MLVFAELVME MLDQPEEQLH NVRGVAIEKR EFLKALTADF  
 TSRLKQAQTD KILVWDF

> RXA02132 (1-639, translated) 213 residues

VHNFSFDVDE SYAKKNEIL RDAKRLQISA LCLGLILGGG AVAVYLFNSG AVWMMIAIV  
 MVFLALLSFI MIPVIPRQMG NAQTLYDDYE LAPAIIAEVN PRDVVLLALV NRNVNPEAKP  
 EWALATRTIV RVGAHERRLG ERIPSVAITG RRTVKDQDHW DEISMPITW GTTDKDIIRE  
 AEKTIPHELW AKLEKNRGKL EDVKKTPNNL FKL

> RXA02137 (1-798, translated) 266 residues

MVVLIPIFNDE VCTPIPD LGG FPCSLLSVKL PWDKNKNNEG ADAAGQDASS TPETATPDAT  
 EQKLPGKHTA PKGRPTPKRR EVELERGVVG GQSLAPTDY AQQRQKRKEF KASMTKEEFK  
 AYKQKERDAR VKRQRETQAA MDRGEDAYLM DRDKGEVRRF ARDWVDSRRF LSNFVMPVAI  
 ALLVVMLIGN FNPSFAATSS MVAMVLM LGF LIEGITTGRR VNKAARTRFP GTTETGFGLG  
 YYAYSRTIQP RKWRTPRARV EIGA EV

> RXA02138 (1-342, translated) 114 residues

MTAPSTNTGV ILTESAASKA KALIDQEGRD DLSLRIVAVQP GGCSGLRYQL YFDDRTLDGD  
 KEDIVGGVRL VVDKMSTPYL LGAQIDFADT IEQQGFTIDN PNAGSSCAG DSN

> RXA02141 (1-408, translated) 136 residues

MYGPTVFMAA MAVIYIFATM HVSDGGSVKG VEWVGSVALV LSAGLTMLG VYLHFTEVRV  
 DVLPEWEEA EVADKAGTLG FFSPSSIWPA AMSGAVGFLA FGVVYFHYWM IAVGLMLLIF  
 TITKLNLYG VPKEKH

> RXA02146 (1-627, translated) 209 residues

VGKHHRRNSN ATRKAVAASA VALGATAAIA SPAQAEEVVV PGTGISVDIA GIETTPGLNN  
 VPGIDQWIPS LSSQAAPTAY AAVIDAPAAQ AAPAASTGQA IVDAARTKIG SPYGWGATGP  
 NAFDCSGLTS WAYSQVGKSI PRTSQAQAAQ GTPVAYS DLQ AGDIVAFYSG ATHVGIYSGH  
 GTVIHALNSS TPLSEHSLDY MPFHSVRF

> RXA02151 (1-1188, translated) 396 residues

MDWPDIAGKI SILGVVLLHV SLAIPGGQDT MMSHLNALLD PLRMPLFFMV SGFFAVKVLN  
 QSFGELEFRGR LWFYLVYLL WTPVNLVLRH LEGTVFTGRA PGTWEWYSGS MLSATNMWYF

LYFLVIFNLF LWATRKLPAW AIVALVASLW LLMPAYSEIE ILRKSIIYLP TFLIGAYFRP  
LISRFAEAAAT RPKAIVFAAV LYVSGLALGV ISNGLRDSEN HGASVLWLMN LRDTFahalG  
GNLTGFDMDH LPGMIIRIVS LPAGIVLCVW LGRIKPVGEF LKLIGRHTLP IYIGHATGLS  
LIFGFGLRWN FMEIDNFSDS LWHHTNTWMV IAFACAMLG YLTYLISRVP VLGWTLVPPK  
LPEPDKTPAK AQADSHVKAQ SAKPMNASTS SKTYGI

> RXA02152 (1-402, translated) 134 residues  
MAIYRKLAAS AAALALSASL VACGDSDDT EETSTTSST TSSSSSSSSS STAATSEESS  
AVEEPAVEAP VEEAPVEAPV EQAPVVEQAP VEQAPAPVQE APAPVEQAPA PVQEAPAADA  
PPALPGGGGG HAGY

> RXA02163 (1-753, translated) 251 residues  
MAVATFGTIT DMLETGIVS NVGGTDTIDL GALLNETQAG TRWSELSPNY QSNRVVQIST  
TDVRTSNSAA MYLSMMSWVK NGGKTVSSTA EADAIPELS QLFVGQGYTE STSAGPFDEY  
LSQGMGSKPM VMIYEAQFLA EQNKENSRI S GDMELVYPS TVYSTHTVVS LSDVGAIEGE  
LLETDETLOQ LAVKHGFRPK NSAMIADAGM TDRMPNNLN IDPPDYDFLE RLIDGVGASY  
SATPAEDTD L

> RXA02164 (1-1575, translated) 525 residues  
MKNLVKGTAL GLSLVLLAGC STVSDSIDSL GGGGLGGSSET LKIVAATELE DLQPAIEQAS  
DDLGFDELS FPGGTLSNSQ ALMDGAFTDQ YDATWFATNR YVDLIGASNK LGETTKIATS  
PVAFGVKTSM AQELGWDQOR PTWEEELGQAS QTQDFTFGMT DPATSNNGFS ALVAMATAYA  
DTGQALTND IPAIAEPMST SLSGQTITSG SSGWLKDTFL EQPDRANAI NYESVLHTMI  
SEDGADITVV VPADGVVSAD YPLSTITGSD QGEHVAELAG WFAEHPDALT DTYRRPTTAN  
ATLPAELSSQ TIEEAPFPGS KTVTDALIDA YTNQFRVPE TTFVLDVSGS MLGQRITLLK  
DTMSDLISGG ATTDLANVSL RDREKVSII FSGFPHEVIS ETLGAVGSPS RTDLQQRVEA  
LQADGGGTGIY DAVLAAYAES AGGDYIPSIV LMTDGELTAG RTYDQFLTEW NALPSNIRSI  
PVFVILYGEA NVADMEQLAA TTGETTFDAI NGDLDEAFKE IRAYQ

> RXA02165 (1-612, translated) 204 residues  
VPTNNGGSFF FSRKNLAGIA IATLIILHL VIGLGAFWPV VAIAGYGAAV ALTPKNPPKK  
ELPPVQATPE LDSPGLLAAR SQELVRTMYS HGAAAPVIEA IKRLDSSLQL VIGNWTSLTN  
FPEHQVTIRS IINQYIPGII DAYLKIPTRN DPRAVEDLIE SFDLLNSETM KIFNAIQEQG  
LNNLEDHGRA LRMQFGQLPE EFRE

> RXA02166 (1-177, translated) 59 residues  
MSLDPQLLEV LACPKDKGPL RYLESEQLLV NERLNLAYRI DDGIPVLLID EATEWTPNN

> RXA02168 (1-2814, translated) 938 residues  
VSISLTPH SFKEPAILYA QASAWQQVI ADSSDHITA THLRELLSRS RAKTAPFARQ  
ITAIVPGSLA RLEELTRED QIGADIDAQ AVSIPGILLG QIAATRQLRD LGLDVAAASR  
LGHSQGILGV EAVDNEEDVL AFALLGAAA SQFAGKGAHM LSVRGLSREI IQDTIAGVDG  
VEVSLRNARA HFVVSQKPEA LKKAALQOR AADVYNEDIN EKRRKGS LAE PKFDYLDVAI  
PFHSSMQDA ADLAVEWATT CGLNVNARL AEAILVNPAD WVEQIANLKA DYVLSLDAGV  
SRFTAPLLDG RGISLVPAFS AAERDNLARP GFHVPTAEDW SEFAPKLVLK PNGEHKVLTG  
FSRLTGYSPI VLAGMTPTTV DPEIVAAAAN AGHWAEMAGG GQYSEEVFTK NKEKLVSLK  
VGRSAQFNSM FFDYMWNLQ FGAQRIVSKA RATGTSINGV VVSAGIPEVE EATELINDLN  
ADGFPYVAFK PGTVDQIRAT LKIADANPET KIIQIEDGH AGGHHSWVNL DDLTLLTYAE  
LRSRKNVVVM IGGGIGTPAK AAYYLTGEWS TDLGFPAMPV DGILVGTAAM ATKEATTSPQ  
VKQALVDTPG VDPHDAGGWV GRGDARGGV SGLSHLHADM YELDNDSAAA SRLISSIDSD  
DYADHREELI EAINKTAKPF FGEVEEMTYA EWIQRWVELA YPTQDPTWDD RFLDLVHRIE  
ARLNEAEHGA ITTLFPDHAS VENEEAEVEK LLAAYPQARE IQVSARDAAW FIGLCRKHK  
PMPWVPAIDA DLARWWGLDT LWQSQNERYG ANSVRVIPGP VSVAGIDRVD EPVAELLGRF  
EAACVDALDG EPEEIFARLN ESKNEREFL ATPHIVWHGN LIDNPAHVLN EGAFELIEED  
GYWVIRILAD SYFDDLPVEQ RPYLVQHVDI PVELGDAG

> RXA02169 (1-846, translated) 282 residues  
LDMQINRRGF LKATTGLATI GAASFMFKA NALGAIKGTV IDYAAGVPSA ASIKNAGHLG  
AVRYVSQRRP GTESWMIGKP VTLAETRAFE QNGLKTASVY QYKGAETADW KNGAAGAATH  
APQAIALHVA AGGPKNRPIY VAIDNPSWS EYTNQIRPYL QAFNVALSAA GYQLGVYGNV  
NVINWAIADG LGEFFWMHNW GSEGIHPRT TIHQIRIDKD TLDGVGIDMN NVYADDWGOW

TPGNAVDDAI PTIPGNSNTG TGTGIDADTI NQVIKILGTL SS

> RXA02170 (1-774, translated) 258 residues

VSTVLLAGVV IIGGIFTLPQ KEEVKVSELO PQASAASIPS SSSTAGKAVE ESPLTQFVEN  
STGSQITYMS LKDDFHTGTS TERFARPALS LSKLYIAEYV LEHGTNNEKS LAMEMIKDSS  
DVSAEILYEA YPESIEEIIAD QYGLLSTRGD AHWGYSVTST YDLVKFVSAL IIDDPDSPIL  
EAMRNASAVA ADGYPDWGT AVLDEAEGSK WGWSDDLMLH SSVTFGEDYV VAAAVTGSKE  
DLTQLVENQL GEVVSQHG

> RXA02172 (1-339, translated) 113 residues

VNAEQITQGR RQPTAQEFRD MQASPEFGEL RSKFRSFAFP MTVAFFLWYV VYVLVASFAS  
EWMATPVFGA INIGLIFGFL QFVTTTFVITY IYVMFANKNL EPRQAAIRQK MEG

> RXA02177 (1-933, translated) 311 residues

MREIFLISGD STESSLVFKT SEEDGAEFF IAVTDELHAI LAGHSEIKSA PEPEEHKEVP  
PPVLEPVAHV EEPREEKEID PRISAPLTMS PREIQIRVRS GATIEELAE IGVTARVEP  
YAHFVLLERA RIADLAKQSH PIRENGPAKL TLWEILATAF ATRGHDLTTA RWDAYKDATN  
QWIVRVWKA GLSDNYAWE LNLHNTSNPT ADPRTPVAAAD LIDPEFIQPV RTLTSVNSTQ  
EQYDDETDVF DTVSPDDAP DSESDAVAEI TNDNEPEVDA EGPRNRRRKA VTPHWEDVLL  
GVRANTKRPK K

> RXA02178 (1-870, translated) 290 residues

MPSQLGENAA IVTLWFVSAS DPQSIIRSEP RADRGYGRKL LAQLNPTWPI TPIGQFALNR  
SVPASANEFY IAGFPGITII QTVLEDVTS SKLNPRLLRS VPATDVYIFA VNEETTLGGF  
AHIYNGEIKR SFIAYEERVF EDNGIPGGFE TPYWAGKKGT RKTALSLPFN PIELVHEAQR  
AWLGFDATTS PDINVVAYAT DGRPEPRIAA PRIINSEEVTS RSAVEKLGLR ESAFYDDYEE  
YEAPDRVVSK RITSNAKKA SSAQKFGKSL WRASREFGSN MAERLRHTDR

> RXA02180 (1-1458, translated) 486 residues

MTSGKSTSTR GALDRYFKIS ERGSSIGTEI RAGVVTFAM AYIIILNPLI LGTTPDVEGN  
TLGIAQVAAA TALAAGVMTI AFGLIARYPF GIAAGLGINT MVAVTLVSGE GLTWPEAMGL  
VVLGQVVIVI LAVSGFRVAV FRAIPASMKA AISVGIGLFI AMIGLVDAGF VRRIPDAAGT  
TVPVTLGIDG SIASWPTFVF VVGVLCCGIL VVRRVRGGLF IGILGTTILA IIAEAFDSDG  
ASFENGEANA EGWSLAVPGL PDSFGGIPDL SIVGAVDLIG AFSRIGVVAA TLLIFTLVLA  
NFFDAMGTMT ALGKQGNLVD DEGNLPDIKK ALVVEGAGAI VGGAFSASSN TVFADSSAGV  
ADGARTGLAN VVTGSLFLAA MFLTPLYEIV PIEAAAPVLV VVGAMMMGQV TEIDFSKFYI  
AFPAPLTIVI MPFTYSIANG IGVGFIMYAI MAAAAGKAKQ VHWLMWLVAG LFVVFFAIDP  
IMEAVG

> RXA02181 (1-678, translated) 226 residues

MVDGHIRNLQ GHIDRLEAAA PTASQFHDI ITQLREAPGS VQAAVTIENN HYNVELRPFR  
KLNSLVTLDT HGHRDERLHP KIKGHDIWQ NTATANSRRQ GADDGLLVDE SGQVIMAINA  
SLLAIKGDIV FHSTHPSRLP SVLESTVIAY LQEQGCNAKP REQGFNINDL RSSEVWLVD  
LSGIRRVAAW LEYGSKFVPS ETRPVAAFPV TFSEVNDYLW STAQQV

> RXA02183 (1-525, translated) 175 residues

MASRKTKRKN LIQILSLIVA VLLVVISLVV FQQWNNRPE PLPQEISISA SSPAGEIEVF  
PFSMCEPGVE CEENEVPTLE VGADEELHLT IPEAIHHDW YLLTIYDDPA ANDEFYHTSY  
DATEATVPGS VDPTEEGAER PRLVVVEVSA VMIGEDENGE ESPYTVTWSL STMNE

> RXA02185 (1-579, translated) 193 residues

MGRHSTKTSS AFTKLAASIT AFGAAATIMA PSASAAPDS WDRLAQCESG GNWAINITGNG  
YHGGLOFSAS TWAAYGGQEF ATYAYQATRE QQIIVAERTL AGQGWGAWPA CSASLGLNSA  
PTQRDLSAT STPEPAAAAP AVAEYNAPAA NIAVGSTDLN TIKSTYGAVT GTLAQYGITV  
PAEVESYNA FVG

> RXA02186 (1-219, translated) 73 residues

LFPEFERMYD MANVEKKHFV DPAWPEHNPA DGHVVTELIS KVAGASSPWG DDKEFPVSAE  
ETGYVHPYTR INR

> RXA02187 (1-2199, translated) 733 residues

MKKDPSPIPTL KGWLDTSQDD QLSTILRNRP DTVLPLPPNL ASLAARLQLR ASAIRAVLKL  
 NALELGVLEA VANLGGELHP VTAPEVVEYL HVALAEDLPA QDTIGAALAT LKNFALVYGD  
 DQLMIAQETM AALPVHWRLL PEVSDRGQSE EQVRESVDKL SDRHRKLLHT LAASGGFGLT  
 RDAAPDADPS RPIPQLLASG LLARVDEQTV RLPAMVRRVI EGREQLPAQV RPIPRTAAPG  
 SNDGGIAAGL EVVRHMRLLI DALSHVPAPT LKVGALGVRV VTRLSEKLDL DETELARLLS  
 LGMASGLIRK GVPDPLPMDD DGGDYVAPTP LADEWMEYDL AHQLGTLMSG WWKQTYAPWL  
 VGRADDKDKP IHVLSKTSII DSLPDARAKI LSSLSRVLVD NLHADLAFHY PLAASRMNPD  
 TITQLVQEAQ WIGAYSQGVV AAGQALIDGE NPTEVIKAPA PVENFIVQGD FTIMVPGPLT  
 PAMQKTMDSI ASLESPGLAS VYRLSEKSIR HALDLGLTTP EILEFLKEHS MTDLPQSVGY  
 LLSDIARKHG TLRGGPALS YRSDDPALLH SAVEAGADVA LRQIAPTVAI AQAPLLQVIT  
 VLRAAGFPQV AEDGEGASLN ISPPARVPA ASPPPVVPAL DESRVQAAVK AIRRENSASQ  
 GTVSTQPTLS VLQAAVRGQR TVTLGFVDKQ GVAVHRVVKP LTVNAGQVDA VDEATGAVHR  
 FMLHRITEVI VDN

> RXA02199 (1-570, translated) 190 residues  
 MTDSTPQGST PGMSPEAILN GTGKPWEEL KLLDDVKATS WTHTHIAKHI VDNFVDSGW  
 AQGIAIGY EY ERGMRKPGMT SDGFAANASK TLNLPVEKVV KLFGDDDLRA QWLDPALIEK  
 TSASEPRTFN AKWLADDSRV SVNFTSKGDN KSSFGIQHRR LPDQDSIPVM KAFWKERIAA  
 LVEVSKQFSL

> RXA02203 (1-378, translated) 126 residues  
 MTIRATFQPS VDEFISTLEE FATGSYLKED EKEFWDEPFD VKALPDLRFI LENYLDSDLK  
 LGEAPDLDAV NASAQSTLDE LEKFNTHKHG AVVEPEEKKEE ITKLMFDAK QTGADDLSAE  
 AFPEFE

> RXA02206 (1-936, translated) 312 residues  
 MVGSSGLRVS RLGLGTSTWG SGTELAEGD IFKAFINSGG TLIDVSPNYT TGVAEEMLGT  
 MLDAEVSRSR VVISSSAGVN PALPLGRRVD CSRRNLIAQL DVTLRALNTD YLDLWSVGYW  
 DEGTTPHEVA DTLDYAVRTG RVRVYAGVRGY SGWQLAVTHA ASNHAAASAR PVVVAQNEYS  
 LLERRAEQEL LPATQHLGVG FFAGAPLGQG VLTAKYRSEI PHDSRAASTG RDAEVQSYLD  
 NRGRIIVDAL DTAAGKLGIS PAVTATTWVR DRPGVTAVIV GARTHEQLSH LLKAESVTLP  
 TPITQALDDV SL

> RXA02207 (1-759, translated) 253 residues  
 MRRRSRVSR LPPATALLAST ALLLSACTQG VTDSPDMGKA TPAVSPAASN PDGQVIEFGN  
 ITDMEVTDGD ILGVRTDAL AIGTVSDFEA GSQVELDVKD QCGDLTATGG TFVLP CADGV  
 YLIDAKDPDL DELRATDKPV TVAALTSDDQ LLVNGEED E LTIYREGEEP ETFTVAGPNT  
 QLIAPVVIDR HDAVVRTWNE NTTIQDVDYP NDREGATLRV GLGVGMAGG EDGLLVVSDE  
 MGGQIAIYNA DDV

> RXA02211 (1-453, translated) 151 residues  
 MVSVLLIQPR QGEAVAAAER RDLQATGLK PQELTSRMLD TTSTRIGSLE GFDGVIVGGS  
 PLNATNFEYS DWQRHVHREL SLLINHPLPT IFVCYNTFL TFFSGGQIGR THPEDSGATT  
 VLLTDAGKRD VLTQDLPSDF TSFTGHTENS V

> RXA02212 (1-498, translated) 166 residues  
 MIPENIDLKQ LASELGDDAV AMGEHTGNQF PLEKDLINV VTDAKESDFG SLGVVILDET  
 PVMTSNLRDI AQELLIQTDL DTVVVRAPMS AAVVSDVHSR AALESQGHDL LGTTDYVLGT  
 ELLVQDVTE S TVGNIDWGQL LIWGLVALAI AVVVGASVR RKAISL

> RXA02216 (1-306, translated) 102 residues  
 VAPAPGHVVL ATGPTCPIQM LRANKNTWSV QFHADMDAVG MKNRMDFYSN YRFFSPEDYD  
 RIIAELPSVD SIYANRVLRN FVEVCEGIRV ADGAHQPLK LN

> RXA02217 (1-663, translated) 221 residues  
 MTNKTRALLI GGHGKVALLA TPMLIDASVQ VTSMYRNP DH RSEIEALGAT TLERDVTTL S  
 VEDWADLLKD FDVVVWSAGN GGKNGADATY AIDRDAAIAS IDGAASLGEK APRYIMVSYI  
 GSSTHTIDPS ASFYPYAESK KAADEHLSST NLDYLILAPA ALTLDEVNGV EVIADTNEAA  
 AGRTTSRVLV AEVITELVVR DFPQTRVL PF VDGE SPVSSI S

> RXA02218 (1-267, translated) 89 residues

MFAIMTVTGQ DHTGIIAAVS TALAELDVNI HNVSQTIMDQ WFTMILHVGF DESVLDIATV  
QERMKPVEKE QGLVIRIQSE ALFNAVNEI

> RXA02219 (1-1386, translated) 462 residues

MDDFSASLGF TDRSSRGILD TIEMIEKYRL DIRTVTMGIS LLECARGSME ETATAVYDRV  
TSQAARLVEV CEGIERELGI PIVNKRISVT PIALVTAGCS GDPVDVARAL DKAADKVGVN  
FIGGYSALVE KGGTTSDIRL IRSIPEALST TDVVCVGSNV ASSRAGINMN AVNEMGKVVK  
QAAELTKDRS AIACAKLVVF ANSVGDNPFM AGAFHGIEEP DCVVSXGVSG PGVVSXALGN  
LQGATLDQVA EEIKKAAFKI TRTGQLVGAM ASERLGVVFG IVDLSLAPTA EVGDSVANIL  
EVMGLDQVGT HGTTAALALL NDAVKKGGMM ACSRVGGLSG SFIPVSEDKG MIDAVRTGAI  
SIDKLEAMTA ICSVGLDMIA IPGDTPAETI SGMIADAAI GVMNHKTTAV RVIPVPGTVP  
GDEVDFGGLL GYAPVIPVNT VGNSEFIHRG GFIPAPVHGF RN

> RXA02221 (1-1362, translated) 454 residues

MFTASIPTYE LGSFSKGSYV EIKGTIFYPD TLNTLFRNSG AKDNEEFFVD VTLVPEPDNP  
HSTRGHAI SV RWNDLVIGHI ASDMTEKFQ VRRVAASGYD ARVSARIWTN TNYKNERDFW  
VSVKLPDPDF LVPLNDPPHD GFTLLPYGTA IQVTKESDHM DVLSEFVPPS GQGQILVSLH  
IINAGVRKEW DGIEVRLDNQ RIGELTKASS EKFAVVRHF DDLGLSTLCR ALIKGSSLAA  
EVTLYGARAH ELSEEDLEPK SSSPLRLVE YQSNPFNYQV PNRWPGEQNG RAPKSQKSSS  
SPFAAYRGPS QPSKSLTPFV AQTAPQPSD RFIDWDSLLQ PDGTPRATPF QRGVTRGLIG  
KHFSNQKSPR IDFATVGQCD AILRTFGEPT DKLYKDGRS WPLWWALMAI VTLLVMLLNF  
IPGIGPIFPL IGLIVLGHFF WTRRKLNPFF GRSK

> RXA02223 (1-420, translated) 140 residues

MSTYQDDRFP GPDPYAPLGE KPSFTLTSTD LENGAKLAEA QLGGTDISPQ LSWSDLPEGT  
KSLAITCLDP DAPTGAGFWH WAVFNIPTTV TEIPTGAGDE TLGGIEGVVS LKGDGSKRGF  
YGAQPPAGHA PHRYLFAVHA

> RXA02226 (1-1056, translated) 352 residues

MTENQTPSST SAPKPGPRPG PRPGPRPGAQ VAAKKAAVAT PAPIAKTSND PAKFGRVEAD  
GSAYVTTSAG ERLIGSWQAG TPEEGLAHYG ARFDDATEV ELMEQRLISH PDDATSIRTK  
AEELKATLPT IAAIGDLGV EARLSKIINN SEEANERAKE QKAKNRERAV ARKEELAVEA  
ETLAENSSDW KVAGDRIRAI LDEWKSIGHI DRKTDELWK RYSRARDSFN RRRGAHFAEL  
DRTRASARKL KEELVERANA LKESTEWNDDT ARAFRDLMT WKAAGRAPRE IDDKLWAAFK  
GAQDYFFDKR NAVAKERDQE FEANATAKQQ LIDEYDAQIN PEQGLDGARS KL

> RXA02227 (1-618, translated) 206 residues

VEDVNATLII MPGSPALVPE LAPADAAGAR LLASLRAVFD AELANDDRPI ELVGSRDEAW  
FTKHAGNLRA WGAPSVQVSD GHYLPEILQR VALGGFESRV THVRDLRGSV NDNTVTVLAL  
DGPTGLTTRA PSALVPGASN IDAWCRSLLS GKPGEVPSTS TLIDASLREP QLWLDSLAVA  
TEASTAQLLD SDDTHGVGRY VARWTF

> RXA02230 (1-537, translated) 179 residues

MGEQLPFANG SRSNKLPLIV IGLCCIMLIL WLKLPVLLA TIIGVATMSV MRMRSTSTPET  
ASLVTSIRLS AEDISDVQHE WQQFLTSPEA DALADRTLVR PALADPDCGD KAIEKFHYEI  
SNANRFLGRL DARLQQNLV SELETLLKVT DERALELRET WLDARKAAQK LGPNYNRES

> RXA02231 (1-756, translated) 252 residues

MTSDLKTIGM DFAKWQDAVE AAIASQRLEV TGEVRGGQLI QFSDDSGAQI NILAVEPFAT  
FAGFNSATVA YGHVSMINDV LSLVDIIDPF GTPVATITCN LAQGPLLVD PVQRWQQIRI  
TALGIDVEVH DNADAYIRNG GETVGMLVSE GAEKIASGSG AVIPDASAEF SARVLSAEYR  
TNTLTGQRFI HATVDGLFAF DVCLPDAPEL PARDSVLSGK VMLTAAVIPT EVTGCGSGSG  
GCGSGSCGCG GH

> RXA02238 (1-285, translated) 95 residues

VTNVSNETNA TKAVFDPPVG ITAPPIDELL DKVTSKYALV IFAAKRARQI NSFYHQADEG  
VFEFIGPLVT PQPGKPLSI ALREINAGLL DHEEG

> RXA02244 (1-1533, translated) 511 residues

MSLEKSGGFR SRTPKAQQEP AKQKPQARKS PSKKAPARGQ GQSQGQRQGG SSGKGGGNRK  
PPAQAREVRA LGVDKPREIA FEVLDRVRTG EAYANLVLPR LLSKHNLSGR DAAFAITEITY

GTLRNVGLLD EVIKAASGRE LSDIDPEVLD VLRLGAYQVM FTRVEDHAAV DTSVKMVGGL  
KKFQATGFAN AILRNITRKE PEQWLKELEP AEELARVAFR TAHPRWIAQS FSQVLPADEL  
EAALAADSER PVVHLVARPG EISAEELALI TGGDEGKYSP YAVYLEGGDP GDIEPVKDGL  
AAVQDEGSQI IARALVEIPV EGTDAWRWLD MCAGPGGKAA LIGALARMDR ATVDAVEVSD  
HRARLIEKSV RGLPVKVHVG DGRTINLTGG YDRALVDAPC SGLGALRRRP EARWRKQESD  
IVELNTLQYE LLESVNVKVR SGGVIVYSTC SPDLRETRGI VDKALGALEI EELEAAEFMP  
GMTDTGDEKS VQMWPHRHGT DAMFVAVLRK K

> RXA02254 (1-681, translated) 227 residues

VIAALTDILG TSQHALDQIA QLAGAKGRII PVCAEPLDLE AEVSGLDSDA RVMRQVRGQV  
AVAATPGQVR RVRIIPDNPE PNPAIEAIL DADLVTLPGL SWFSSVIPHI LVPGLVDALA  
QTKATKTVVL NLTSEPGETA GFSARHIIHV LRQHARNLQV DQVIVDAKTL SSQTERNHVE  
RAARTLGAEV SFHDVQAEDG RGRFTSIHDP AKLCAALLAS FAGARKR

> RXA02255 (1-936, translated) 312 residues

VAKNSVRAAE VSAILRFAGE MQAVGGKLV EANLDSMQVG MRLQEFIQGL YNSRVDVHTV  
NPTVSRKTPR YLVRIIDNAD EIAARTGLVT RSGHVVKGLA PSVVSQTISD AEAARWGAFL  
ANGSLSDPGR SSSLEVLCPG QESALALVGC ARRIGIAAKT KDSRGFDRVN VRDAEAIGAL  
LTRMGAQKTR MLWEEKRIKR ESRTPTGLA NFDDANLRRS ARAVAAAAAR VERAMKILGD  
DVPEHLAEAG QLRVQHRQAS LEELGRLADP QMTKDAVAGR IRRLLTMADK RAEDLKIPDT  
NSVVTEDLLE EI

> RXA02266 (1-513, translated) 171 residues

MTQDEHPRQA DSHFNMLLPD GNENAHQLSV ALNQVAHLLA YDADSSIHRP DGLSLASYRI  
LFSLWTDGPM SPLQVTDKGT MKKSAISNLL KPLLAESLIV QVTAENDRRS KVLSSLSEKGT  
TYIQKTATRQ NALSEWFGT LTDIEQDLLE SLLRKLLDSN RASKVRKNRS N

> RXA02267 (1-873, translated) 291 residues

VQKWGLSFVE RIVIVNNVQQ FHRFFDDSAV YYPFCFVPLDR AIGEHFDRQN KPMSRFIGTL  
ILPLAKLEEA AQYTGDEVLR VSAVISTDGL ADLRRDFYEL PNIDIASVEI KLVGAALTNT  
AWLGDVEKLI QQHRTTFVWV EIPTALVTAD IVRKLHRMGA GLKYRTGGDR EELFSPQDL  
VTVLRTAIDA ALPFKLTAGL HRALRYRDEK TGRHLHFGFLN IAAAVATLRA GKGEAEALKI  
LEGDDAAPLI HALQSGENWR DSFRSFSTCN VVEPLNTLID LDVLAEGDVH P

> RXA02271 (1-558, translated) 186 residues

MSFLNSAKTK TVALTATFVG AATLATPAIA SADIVDNALA ALPSGEISCS QAEKYWTTEA  
DYNKVAQAN ALAMFDSRGP QIQAAARVD EAANRCGLKG GTVAAQAEAT EAAPAAPAPA  
PQDNTGTSQT APAPAAPAAP AATPVVNLAP AGSPTFTIEV PGVGGVQLPD LYQIVQQFLA  
QFGIKI

> RXA02279 (1-1404, translated) 468 residues

XARATALVDF LESQTVQDLN NPDVQTYLTE AELIRDDLRS WAVIKSNGIG QHRSCSIRRG  
NDEPLAIARK IIEETASHPE LRFENLEAQF SEFTILLAQS PENLDVARYQ ELRTQGNFVQ  
ELALDSIFGQ HAVVQDTGNG EAILDETIGY MIGAGMRETT ARTASQFAQL YSFVGRQERS  
IEMARLAFEE LQAAGLPHRE EELRLGMQLA QVEPIEAREI LEKLLLPKFE QNLTLDELET  
EALLPLGATV AIHDPQAAAA ILRHARENAA GFGNFELAVQ AMTMITDVLY TQNMHEQLLE  
ELNHSPLPYAQ MLDDQHQAEL KLLDSIAIVQ ADLGSTEAL TLGTAMGLAE TTAQKLYVQE  
SLNRAYFTFA RPEDCISGAA DASALAMQND DPSNAAAQLE QCAQYLFQLG HETDGASLLE  
SAFRVEGIPT EQALYYANAL SSIYEDFGDS AKSQYWEQQA QEKQQLLE

> RXA02280 (1-753, translated) 251 residues

ADLAETMLGL LTLETSGRI SIGEITTLST TEDVSLQLAT TLDDFRQLNT IARPDTLIIN  
GGYIHSDLA RLIPVHYPL TVSTADLRES MDLMELPPLQ DIEKAKALDA QVTESLKDFQ  
IKGATRVFEP ADVPAVVIID SKAQASDRDN ETQSATTDRW ADILATVDNT LSRQTANIPQ  
DQGLSALCLN WNNSLVRKLA STDDTAVVSR TVRLLYVQAL LSSKRPLRVK ERALLNDSLA  
DLVSLSLSSD I

> RXA02285 (1-729, translated) 243 residues

LVLDERWVG GLVDKWDEGG VEKRLFAAVL CVVGAGRHHV DERGEVRYGG AEAALLSLEG  
RVVGVEVEDG GHEVFARGVF LEAAHEVRNG HVEFLWAHGW YVKQQLTDVN ADGARLIGRH  
ALQHFELHTV RYPTLHREQM CECYVEKVVA GNAQAQALHV FFAHRPIEDA LVIGIGGLFG

RFCGNWPAGD LRVDVLHRQI STLDQANLNA RPACVDALAA ELRQVLDCTE GIGKVRLQHN  
SGF

> RXA02286 (1-549, translated) 183 residues  
MKNAKLFLAL ISAPLILAGC SSTDTGTAE TISSETASAV DATTSTSSST ATSAVIDDDP  
VFDIIDIIVLA QYPDRIITDI DREDSSDQYE VDVVVGQEV ELDVTTSGQI HTDDRNDND  
DDIREAHAAT VTAAQAIGLA LDQYPDGIID SVELDEDDGQ LKWKIDLDDT SGNDLADVEI  
AAV

> RXA02287 (1-552, translated) 184 residues  
VYSISETIAR TLMPTDHFV DLMGNGNAWF VDALERLGRG IITVRPTVET VAAADTYHRV  
TRRPAVATTT YGAGFTNTMT TLADVALSRI PLLLVVGTA SAGPRCFDID ROGLARAVGV  
ETFTVHADDV AAVTLQAWNN TPENTHVILE IPYDLAAATA TDPTVTITYLL RPFQKLPM  
PTLS

> RXA02294 (1-375, translated) 125 residues  
MAKTKLESIS ERNSDDPLSY PDLTLAPIST TVTVVVAEDT PNDNFSELLL GAAESTRLLG  
LDELHIIAPS VHLPALAVAA ADIAHHLPEK FQFCEAETCT HLHPDDDTYL TAESVAQLGT  
KLKSA

> RXA02295 (1-780, translated) 260 residues  
MGLELAASGW GILIAGAAVA GWIDAVIGGG GLVLIPLILA VMPQLAPVTA LASNKLA  
GTASAAFTLV RRVKPKDKLL ALYVLVAVC SGAGALAASL IDKQIMRPLI IVLMLVGLI  
VVEKPNFGTG ESKALPTGWK RWAAIVAVGL IAAVDGIFGP GTGMFLIMAF TALLSQN  
SAAMAKVVNT ATNLGALIVF IIGGHMWWTL GLVLAVANVA GAQLGARTVL GGGTRLIRYA  
LLTLVVVMSV YLTWQQIQGM

> RXA02296 (1-489, translated) 163 residues  
MRNQTIAAVA ALVLLTAATP AIAATPATAG NGLYSIDMGD EQKLTCVLF EPSTEAHVVA  
SCAATFPVTW KLLDGAHEQA AKLEITQAQD GELSVTASKQ PLITTMIAPT SITKPITVNR  
LVVVPGENEV RFYATDPDVL PVLITPDSYE VLTDAAKVK ATL

> RXA02297 (1-1137, translated) 379 residues  
LSDKEPDPE QIPEKPSRKV IALRWCIVAP LSLAVGWLF MWGVPAAWIL GAILVAGVCA  
LTTGQDLPM KGVHVFGRSI VAMLAALPLI SSSGSELVRF LIPGLVISFF TIAVGIVGGL  
LLARSPEIL PETGVLSMLA GGASVMPILA RELGADFRYV ALTQYLRLLV VSMTLPLVTH  
FFVPGGADLG SPPEKWLDVL SLGEFGTIS VLSLLVLFGL VLAGPLGLRL LRLPAPAVMG  
PLILTVLVSF VIPDDLSQLP PTVFKIIAFM AIGWMCGLPL NMTALKVFSK QLPATFLFIF  
ALLAVCAGAA GLLTWLWDIS FFEAYLATSP GALETVLALS SEGSAGPVVV TIQIIRLLAI  
LTIAGLIPTL LRRILRRDR

> RXA02298 (1-1659, translated) 553 residues  
MTLQSSDKRS PSLLDASSEV FVHDLAALSP TDATAWGIGS FEGDLQDFSP DYWNAIAERN  
RDMVADVDAF DDGTDNDDE EDFDDVDRVT ADVLRDRVCL DLALHHQGET LANLNNIDSP  
VQTIRDTEFLI MPRETDDVE NLRERLSRVP DALHGYCESL AEAASQGHVA AVRQVEEVVS  
QCEDLADEDS VLQHLGLDEN DPVVVEAQEA FARVAGWLAE QLAPHAPHVD AVGRDRYEMF  
SHLHVGEFVD LDEAYQWSLE QLRDIDAQQL QVAQQLYGPG TTIREAMKKL NADERYLIRG  
TDALQEWMQK TADQAIADLD GVSFNIPEQA RQVECLIDPA GTGGIFYTTP SDDFSRPRGM  
WWSVPKTQEV FHTWQELTTV FHEGVPGHHL QISQTLVEKD LNLWRRVACW NSGHGEGWAL  
YAESLMKELG YHEDPGNLMG YLDAQRLRAA RVAIDIGIHL NKRNPCTGL WDASYARSFL  
RENTSMNEDA LYFELNRYLG WPGQAASYAI GQRLWLNLRD EASQQTALA QFHSKALSYG  
SIPMGILRDQ VLN

> RXA02300 (1-333, translated) 111 residues  
MKTYAVLIAV AGLALAGCSS SAPGIWRATE PADAYLEIAD DGTLSGTDGC NRLEGGWEKD  
GSTITFGAIG MTEMYCEGVN DWLSQMHTAT VTDATMTIFN EAGSNIGELK R

> RXA02301 (1-717, translated) 239 residues  
MDLALAQVDS TVSGLYDALD LIGVLLNGII GGTIARQRGY DIIGFLFLAL FSALGGGMIR  
DMLIQGGTVA AIDNQIYLAL AFSGALIAMA VNFKGRVWEL FKVHGDAIVL GVWAVTGSVK  
AMNAGVAPLP SIFMGVLTAV GGGMVRDVAT GQTPTIFGG TLYAVPATLS ATSMVIFHSF

DQVILGMIIS PFLGIALAVT AYWCGWVIPV NTDFAPVNLT VSQLRAMLSK AERKDKDQK

> RXA02302 (1-765, translated) 255 residues  
VATNRTSSAG VITSVLASAL FGAIFFISGA IEAKAETLVA WRVLLTAACY LLALLHPAGR  
KVFKEFWDTL RSQPRQILYF IFLVVLITLQ LWLFSWSPKS HALDASLGYL LLPIFLVIVG  
RFFFADYITR LQWIAVGIAL IAVTLKFEVIS AQLSWVTFAI AAGYALYFAL RKYSGLNNAF  
AYGAEVLALS PLAFFMLATV EDPLSNAMLS MVILAGLAGA LAMALYLAAS TLLSMPMFG  
LSYGEPIILF VAALL

> RXA02303 (1-720, translated) 240 residues  
DPDPADRYIA HLPDRTHHTA MIMLGSGLDH SMPGVAFIGG VSVDDVPEVG GAIFHPSNPT  
GRWAVSFHSG GWWRGSGDAL EFQWRPEVAA AAELSGTTIL DLDYPLAPGH NLHDMNEVVG  
KAVGYARHHN PVSITGWGYS SGAALAAINA SLFDALVLT F PDLGSVEKLP AEIRGDAVVP  
AAAAWPTTFV QIAAQDEIAE RPEGELGDATV KEYVSRHRIS TPKVAREKIT DVAEFLKTVC

> RXA02304 (1-891, translated) 297 residues  
MKTPRLLKIL SAMVAVTGLL IPTVVPMAAA DAAELSDNVP DRTQIAIINP DGSVQESDNA  
EESRPALSIA KLYLGYYVLA QGAEDIELV PDMIRYSDDF TADYLESEYP EAIPEVIDAF  
DLEDTEWAGF WGNATTSAVD IATFVAALID DPTAQPLLD MSMTAEYAAD GYAQNFGTFT  
LSDVTGTFKG WSDSLDVHSS VSFPGFVIA ANTYGDAETL TEDVQDSVSS LYPEEVTTAI  
EEQVDQLCEC AAETTHLGMH TGAELKAQLE GTIYGKTLSE LPNSAPAPAF IYNLLAH

> RXA02307 (1-390, translated) 130 residues  
MSGTAIMYDT TVVPSKKEIA QAWTGYVDLQ GSYRLVDTVD GEVGVEVLIS KDREGRLLOI  
PFSYSAEIN PEQTLSTLEH GVLGKRWVTN ALGDPVAVRE FIRTILTGDG GAARSDGVKG  
YLDIKGSGDA

> RXA02308 (1-429, translated) 143 residues  
MSETQNSNSV AVMPAQLPPG PAERTVYSYG VRAGDQVHIL RMEAFDSAN IVGERDIEAH  
AEQVFNKLAQ VIHEAGGTIN NIVSTTTYLA DVTDAVVNA ARSRYFTGEV LETHTVIGVA  
ALARPQFLVE ISAVAYLGDL SKD

> RXA02314 (1-441, translated) 147 residues  
MEWYQVRRRA RQLLIVLFIA AMLGAASMI GPFLNDRTIE GNSGRALAQV TNVGSYRTTV  
DFQDENGIIH SPATGLLFPT GLGEGQRVWV NYAKSDPDV KVEGRKWTLS IIPALSVAHV  
ATATWSVLWL GVGRFGRSD DANETTV

> RXA02324 (1-1086, translated) 362 residues  
MATTPVTVL SGFLGSGKTT LLNQILHHRG SRKIAVIVND FSEINIDAAL IASEGHLTRG  
EDRFVELTNG CICTLREDL VDSVGELASS DRFDHIVIES TGISEPMPVA ATFEWQWDDG  
TRLADKAPID TMVTLVDATQ FIDLIRKNTS LTEAMGATE DDERTIADLL TDQIEFADRI  
YITKSDLVDR TVLEQTRALI ASMSPRARID LLIDGLNDGS PITDDILGAF LYDEATARAY  
EGYTELENP HTPETEYGI SSVVFRSDRP FNKDRLLQVL RSTTGLVRSK GYCWIADHLN  
IVQVWHQAGP NLSIRPAAYW ANSEITPGTE LVLIGIHIDG PTLALLQGA TLDAEVAAL  
VL

> RXA02325 (1-870, translated) 290 residues  
MMDHAHSCS PTLRRDLEVT GQLQPEKAVD LAAPHEGKVA NITKVTSSNM EHTITQASKA  
KEVVVLIGHS LLPTFQDLEK DILHFQAGNK GRFSVAIVDP DRSDVVARF RPKQIPVAVV  
VKDGASIAEF NSLNKEPVAQ WLDHFVSRET IPNEKEGDVD KQIDPRLWRA AELVNAGDFR  
AALALYEQLP QDATVKRAHA AVSVLARMSV ADRGEDPIEK SRRDPDDVNK ALAAADMYVL  
MNQPDALAH LAALLPKPEA ARRIVELLNL FDPLDLVALE IRAQVGNAMS

> RXA02331 (1-366, translated) 122 residues  
MELNGGRFYA RKLTSNDRID DVPALSLILA DAAQFIADAT TAWHEDTEYT WAICEQTSVE  
LLALARLDPK QRTLEVVPAG DPATQLPNDF VLAPKTIGDA VAEGRDITR WAQGYLEISL  
TD

> RXA02336 (1-180, translated) 60 residues  
MKDTTEINWQ GYADGTAIRES AVIHSIEREV SAGEQPTPND LKFLGLFQHR AGYVGSLLITG



> RXA02337 (1-924, translated) 308 residues  
 MSKLYAGARI NALRRTHQLT QSALADKLDL STSYLNQLEN DGRPLTATVL LQLMKVFDVE  
 ASYFSPDRGT ATATRLAETL AMNQGPTMSM DDLLDFADRF PQLAQHIIQP AEVDPTHSSA  
 HDFVRDYFAT HKNYIDSLDR LGEELATAIG QPGLRVTRLA QLLDAEYNIT VRFRAPDITG  
 RRHFDPPSRQ ILLRQDLSEA QQCFLAEEL TFLAHAELLD TLTTDQPDLP SEAAIRLAKV  
 GLSQYFAAAV VMPYTRFLEF AQDKHYDIEL ISEAFGVSFE SACHRLSTLQ RSGASGVFFF  
 FVRSDRAG

> RXA02338 (1-480, translated) 160 residues  
 MKKSIVVFEV EGGSDKHFDG HRKDTMPIVN-SINDAGWQAE VVYYRPEWTE GLFEYVSENF  
 DGYISRVPNG NIPGGERGYF DLLTRLSEAG LVGMSTPEEM MAYGAKDALV KLSQTDLVPS  
 DTEAYYDVET FHKVFPTSLS FGEARAQAKT WLHRLPHLAR

> RXA02339 (1-492, translated) 164 residues  
 PTDNLFSPYA QRYDLLTLAF EVRIGDMVQI NDMLAPPPVK LPEDPALGAD PTLTSTAIAH  
 PDSPLVWAYR AENLIKASAN DEEKIQAYAF ARTGYHRS LD RLRANGWKGW GPVPFSHEPN  
 QGVLRAIASL ALAAKLIGED NEYDRCRQML SDADPESVAV LLDK

> RXA02340 (1-639, translated) 213 residues  
 ERVLKQNRGS TGSGIWRVQL VDKELAASIE PGTALPLDTE IKCTEAVDNH TEVRKLGEFM  
 DFCDQYIIGD NGMLVDMRFM PRIVEGEIRI LLVGPHPVFV VHKKPAEGGD NFSATLFGSA  
 KYTYDKPEQW QELIDLFA DA RPVIAEKLGG DNIPLIWTAD FMLGDVVDGK DTYVLGEINC  
 SCVGFTSELD MGIQQLVASE AIKRIEEFAQ LTV

> RXA02341 (1-411, translated) 137 residues  
 MGNSLEKHIA EGDRIHVDLT SPLSAMLFI FELIVITGIC WMGIGFLDQL PGIDGTNPAD  
 SFPEGTRNLL VGVWAVLAAW RFGLPLIRQR RLRVILSDRK LLVRRAGLRT GFDSIPLSYI  
 QRVQRRRNTL VLGVGGH

> RXA02347 (1-321, translated) 107 residues  
 MDELGVGWCO CEKDSITGKA PHPVNKPLVT KSIIRALGDV PDVMSNQDIS LVVVDLWKFD  
 TITPPIAESL MRSVKAVNGE MHPQYPTATA MAAIKHFSNT FDGQINA

> RXA02349 (1-390, translated) 130 residues  
 MSTAYFIAHG NDTYRPTSHS SGAWRDDELH LAPVAGLVIH HMERWRREV V GDALVFSRFS  
 LEVLGQIARD DVTLRTEIVR PGRTIELIET VAEINGRVTI RARAWLLKTS DLAHISGDTF  
 EALPSMTELA

> RXA02352 (1-555, translated) 185 residues  
 IYNTSSTLNG FIADKDNSLQ WLFDPVGS DG ASED FGNFLS KAGTIVMGST TYEWLLKDLD  
 FISDPHKWTD VYGD RPTWVF SSRNLETPEG KPVKV VNGDV ADVLPAILEE SPENTDIWIV  
 GGGDLAQOFF DAGALDRIIL TMAPVFLDEG QPAMPRIIES NRLRTVNVRE VGQFTEITLE  
 TIKGA

> RXA02356 (1-996, translated) 332 residues  
 MATVTFDKVT IRYPGAERAT VHELDLDIAD GEFLVLVGPS GCGKSTTLRA LAGLEGVESG  
 VIKIDGKDV T GQEPADR DIA MVFQNYALYP HMTVAKNMGF ALKLAKLPQA QIDAKVNEAA  
 EILGLTEFLD RPKPDLSSGQ RQRVAMGRAL VRDPKVFLMD EPLSNLDAKL RVQTRAEVAA  
 LQRRLGTTTV YVTHDQVEAM TMGDRVAVLK DGLLQQVAPP RELYDAPVNE FVAGFIGSPS  
 MNLFPA NGHK MGV RPEKMLV NETPEGFTSI DAVVDIVEEL GSESYVYATW EGHRLVARWV  
 EGPVPAPGTP VTFSYDAAQA HHFDLES GER IA

> RXA02358 (1-291, translated) 97 residues  
 MVSYSVHGAL DIDGSLKKLT LDFLNKLATN PASPGLHIEP IKNSIDSRVR TGRVNDQFRA  
 VLFELHDEFD HHFVVGGFIP MMMPSPRQEK SALKSTL

> RXA02360 (1-2433, translated) 811 residues  
 MRGDVQKITK VYDGKHRTLE IPVYQRNYDW TEKQCSRLFD DLSEVVKENH RQHFFGAVVG  
 KPQGSWTWVV IDGQQRLLTI SLFMLALVHS LRASEVEEGE FNAGYNIDLA TLIEDDYLR S  
 GNEGNLKF KL KPVKNDNEAY QKLFGPESEF IESSNL TANY RYFRNV LKAT DLTA AQLWEA  
 IEKLRVMYLD LEEFDDPQRI FESLNSTGLE LSEADKVRNL VLMDQELKTQ EKLYEQRWNP

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IEVCVKFDTD NFIRWYLTLLK TARTPRKQDV YEEFKKFIRN SKLPVEFILD DMYEYAKLYR
DLLGATTGFI AADRCLKRFV PVMGDVVLFP LLPLVLKDAKD GIITESDFLG VLKVLESYLF
RRFAVGVASN ALSKIFSTAY SDIKKFWTPG QSYSSLLAYI LKRRDGSGRF PSDSEFRENF
ATKNFWNIHN ENRRYLFDCLE ENADSNDVRD IQTSLDEGSL SIEHIMPRSL NDQWRAELGP
EYARIHETWI NRIGNLTITG YNSAYSNSSY ERKRTMENGFLVSPYRINNF IKKQKHWSSEE
QLIERTELLT QAALDYWPLP KETFQPPQAV LPTESLDSOL SFRGREIVAF EYEDYKETVT
SWADMLQSVL KVLNQSFQRQ LIALTNEEIC LATSNNNSNS LREIDHGLFV DTGSSTSVKI
GFLRRVFTQL GLEQEALVFT LRPLANDVEP RDDELEVEVE KKYSDLTKFI PQLEEAENLE
GADTEVIPLL SKLKEQLTAF SPENPQAALG GLPVPEFLKQ NVIEQLSAEH ILAVLTQHFN
IASMMGDDYL LEELRSGRLR ELLQRLEELD S

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> RXA02361 (1-651, translated) 217 residues

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MELLSHLLAL DPASPRLTVY NESTGARLDF SAILTLDNWS KVGNMILLEEL DLEEGSLITI
DLPVSWQAAM IMLGALATSV EVSFDDPEAD AIFTSLDLRF HYKGHSDVLI VSEDPFGRGV
VEGGGELPNG AIDFGPTVRF YGDQFFQPTR TLPEIIQHS VPVGARVLAT GWSDIESFNH
QVLEPLAVGG SAVIVTGLAD IERLNQIATN EKTTHRI

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> RXA02362 (1-3699, translated) 1233 residues

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VTISRRLKQE RSFADDLQDL KTLNDQLRFT NAKLQARISG IGNDGKKITR PTPLALDFO
LTVEEYETII AILVEAVGGN QSKPAILKDL FIEYPLVFLA ALSGTAMLDQ QEGFWPAFWK
RTQVSVPEHV YDAIRKELVN SIRKNGLETFLADLNRREY VGLIQLHSGS SAKDMLALVK
FIDHTRAENQ GWDSGEDFAS YAKSVFSSGD NLLTTESLQK LVTHIPARSV DFIARVYELT
NWYRDLKDLN EVEAFVGTGHLPELSFKFLL ECLSGEAEQI AEKTKAAPAS LENLEPPHLY
LDPQSFELSL VFPAISKTAALQIPAPEWTV IYDGNISIKVR PEQDWSYGGF AEYRLPLDKP
LSSLRVITPT EKSLILIEGF GHKNPIMFFK NNGQPYANQE MLSGNAVTAI VPAAAIIRAR
MRASKTFNYQ DLGPLSGWNK WVIRSIPLKR AESITVSHGG FRKELPVRRK VDVQWITEDL
TIENLQGLDH EPVFHTSPRI EFPTSGSNWV IQYSQILPDG SLIEMEDYPV EPENFGYELD
LFEESDDPWV GQFLVTLLKD EKVIYETKFN LAEGLDLSLT FSGGGPENRF RYPSINQGGT
GLTKTFARFS SNSEKHIFRP DEIIGLDAFT SQKAFNIASG DFPEDYNLDV FITPPQLHYQ
VPVTHSQTKW ESTKTTLDLFDN DFADGNLQIR FPNEVYDPNL KIIKMOVAYKK PESSEPKYLS
KIGSSKVWSI PMDRIKELMD DDAQFLIAE WFAESKDQHR EKIISEAKRT GKISNAALKS
ARPQPQASSH IATIEKKPLL AAAEIKLSTV ELELGRHTSK RLEGWAWALS NPLDPPIKVD
FQGTSGSLPD THFVVGPLIV EVREKEFLSQ WQPKVPSVKA VVANDPSFEL DPQFDPFLTH
RWMFAPRSGK VLLPQEIRTW DARFNMHRV LAQRENLHV SIQDFDDATS TYLTSDPRVA
LDELDKSSIP SNSHFESFIR SGLAELSFEV DDTAGDIHRV PWIGLIQEMN DLRLIQIGY
ETEERAIERR NSQSYIREIG GSELWNILKG NSEGLSLAQK CAPQATEINV IRNSGLEAMR
NGLGADQFSA EFISADSRLL AQLEWLENRR ELNDLGQLPT LFDFAEKYEV LIDHLGDDRI
KVTARELSTL ASEHRRGNAE NWLYAPYVSF IYSLNRMIA HEVIRPIAQI NYSRHDWANA
ARLIPRLTGF DLVSAEAKVL SAINNNNIIP TAI

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> RXA02367 (1-609, translated) 203 residues

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MSNAEINPVE YEINNHPAGT ALNPQCEDGA NVEIITSREV PLGGPRAMTV HRTLPRQRQS
LIGAWCFVDH YGPDDVSLTG GMDMASHPHT GLQTVTWLFE GEVTHHDSGG NHAVVLPGEV
NLMTAGAGIC HTEVSATST ILHGLQLWTV LPDKDREGPR RFDHYAPEEI TLEGG SARVE
LGSFLGQTSP VHTFTGSSCF RVH

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> RXA02368 (1-675, translated) 225 residues

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MIVLAGATRV TYEVEPWLAIFLILAFASI LIPFPISKTK GLRDIDAWKI HTTQGDKKRA
IRQLIIPATA LAIDIIGLPT LFNAPPLASA ALFGGVYGAS LAWAAYRADQ LPRIIRTKERL
AELSQNASLD DVSDDLVDL EQPESRELV CLLAGGAMDG TRVMARQVAR VLDTEVDEVH
QVARSLEQHG LVSRSTIMPG GDPGKVFIEV SLKGISAIA LESGR

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> RXA02374 (1-621, translated) 207 residues

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MSYDFVLFFET DGDGPGSARIS KTPLTERIDF ATPSTTPVLE SLSAGLAETV PDTVKLEEDA
IHLSGDRCLY VVTNYSAAEAAEWLTAIAF DYGLGLADMN ADTILLFGDE DSDAVVQIDD
WFSPAFA SAYG LPHLLVEVMR LKDSKTPYLR VTLAADD SKF IQTLYETDNK QWLVTSSST
GTDETHVKTI NDVLERIETW FNQETAV

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> RXA02381 (1-1023, translated) 341 residues

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MSVTNFRFRL AGIAVIAACV AATPTAQAS SGSSGSSGSS AGSSGLWDLF FPESHESFIE
RLLDPLDDSH ISIHPLDTPD LYEEVFDPPQ IGECPAVVAV VARGSEQNLQ IRPARYSEES

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PWTSNGFEEK NFRSFFGRME KHYRESTGES LMKDVYVMGL NNIEYPASLP LSSEGSSAIE  
 LGTSISSGRD NVISAIDRFE SATGCTPKYL LAGYSQGVLI VDGYYEELIA RDQYLGTLHI  
 ANPAQQVDDP TLVGHEVTTG GLASSVEPVE DNPFKVSYCL PGDIVCDRSF EQFSAAGSSI  
 AAAQLSTGNI RPGRVHVQYF VTTQPWDEQI FDEVASWIEA A

> RXA02383 (1-603, translated) 201 residues  
 MPVRVIVDSS ACLPTHVAED LDITVINLHV MNNGEERSTS GLSSLELAAS YARQLERGGD  
 DGVLAHISK ELSSTWSAAV TAAAVFDDDS VRVVDTSLSG MAVGAAAMAA ARMAKDGASL  
 QECYDIAVDT LKRSETWIYL HRIDEIWKSG RISTATAMVS TALATRPIMR FNGGRMEIAA  
 KTRTQSKAFA KLVELAQIRA D

> RXA02387 (1-678, translated) 226 residues  
 VWWCLPTWIK AGQDAVDLAL SAAVDPSPGT YLIVMHSGGG RSKSMVKKLE KVAVVHDAAK  
 LKDRDRPGWV KQEFKNHKVQ VTPDVIHALL EGVGSDLREL ASAVSQLVED TQGNVTVEKV  
 RAYYVGVAEV SGFDIADSAC AGQMSKAVAS TRRALQLGTS PVALAAALSM KVGQIARLYS  
 TRGRINGFEL AKELGMPPFV VEKTAKVARN WSGDAVSEAV ILMADL

> RXA02390 (1-669, translated) 223 residues  
 VEWTAFGTLI LLNLVGSLSLSP GPDTFFLLRL ATRSRAHAIA GVAGIVTGLT VVWTLTVVGA  
 AALLTTYPSI LGIIQLVGGT YLSFIGYKLL RSASRELIDA RQFRFNADAR PIPDAVEALG  
 TRTQVYRQGL ATNLSNPKVV MYFAAILAPL MPAHPSPLA FSIIIVAILVQ TFFTFSAVCL  
 IVSTERVRKA MLRAGPWFDL LAGVVFLVVG VTLLEYGLTG LLG

> RXA02393 (1-282, translated) 94 residues  
 MAESLVIINI DEKSAKLLID AARHHIPTRF TGNARPLSV IPIEDPRSRP TLHPDHGWMW  
 PLSPPVVDEL LGGGLKIGET ELESTNIAFI VDAS

> RXA02395 (1-732, translated) 244 residues  
 LITMAIPSEFI LILAFITFGG TAITMRENV DGFDGSSSKE QVLFDMFSNL PLYSITPFIL  
 IFVLAVFFVT SADSASVVMG TMSSQGNPAP NKLIVVFWGL CMMGIAVVML LTGGESALTG  
 LQNLTLILAI PFALVLIVMA IAFIKDLSTD PAAIRQRYAK AAISNAVVRG LEEHGDDFEL  
 SIEPAEEGRG AGATFDSTAD HITDWYQRTD EEGNDVDYDF TTGKWADGWT PESTEEGEVD  
 AKKD

> RXA02396 (1-279, translated) 93 residues  
 MATTASKIST IRPAQQDALW SVREDLHARF DGLVDPVQVD AILDHVASNR EAKITVFSKI  
 FIAREATAAL QQIAGNVNAD LLDFIALNRG MAA

> RXA02398 (1-1530, translated) 510 residues  
 VVEVKKRNL VAPLTASLVF CNLAVAANAV EVEAESPVVI NEVESNSDPV GDWVELANTD  
 NNNSIDISGW SLVDDKEDLE NALVLPEGTE IESGGYFVIY TDSADYVPTN NTFGGQYFYG  
 LGKDDTVTLR NAEGEVVATY SWKDLGEHAE NTYGRIPDMT GDFANTGVPT PGAKNVAAEG  
 SGEEGVVAN AQLPFHNVEI TPIHLGGDFT GEDMSGVDFD ANSTAWIANN DIGKIYSLAH  
 DIANNYKLT GEWETGYPEG GGEPDAEGIV AATNGDIYLS TERNNADKNV SRPSILRFAT  
 PTGKTGVQNA VQEWDLSEFV GDIQPNGGLE AIAQLEDNIF VVGVEETGDV IVVDLSADQP  
 VLVQRYESSF DGVMSLDYNA ATKQLSVVCD EACDGLSEIL EWDGEKLYKS DDKIYERPAN  
 LGNWANEGFG TYTSELKCEN GNTVSVTSYL WADDAATNEG TSLNSAQVIN GDCGDVNIPG  
 ESSSDNSSSD FATGSIAGAF ATAVLAVVGI

> RXA02403 (1-765, translated) 255 residues  
 MTTFITSGGL EISPAGAHIV HAESPEGELL FVSSASQYGE GNAIRGGVPI IAPWFGGLLG  
 LDPAHGWAKR SAWDVTEHDG QIHAEGYGRDG LLLDIRANST KNGFEITLRA YNDTDEARTV  
 QLAHFHYFKV DDVEKIEVRG LDGVDILNRL NNEVETQDGP VTDFGEFDRI ALGTPVVRI  
 DTDRIITIEG DGHDSVVWN PGESRASTVA DIGEGEWRDF VCVEPALLGA DQKGVVRVAPG  
 QSVTVGMQVS VEKRA

> RXA02406 (1-549, translated) 183 residues  
 METLAAQART LLEKGVAPT HASFVESIAK AIPILSILLT LIVTVNGISS GNPVQPPALE  
 QVRTDVVNKI NYERNLKLGLV SISPELELHT AAQTIAQRNA DSDSEEKVPD PEGTLVLVQQ  
 NLPYANANAD TIVDRFLNSP DHVKLLLAND YEAIGGVAV KGDHAWIVVE FTVAPADSV  
 STE

> RXA02407 (1-306, translated) 102 residues  
MNRQNQLHYP QEVKAVESVE SSLNMSSPSA PLATPDVELD VHTLSSSENLP WLCIVWDDPV  
NLMSYVTVYVF QTVLGFSSKKR ATELMQVHT EGKAVVSSGE KD

> RXA02408 (1-828, translated) 276 residues  
MLIDVAGFLL GHVTKGDTGC SVVIAPNGAF AGVDVRGGGP GTRETDLLEP HNSVQQAHAV  
VLCGGSAGFL AAADGVM TAL ENRGIGFPVR PEGPIVPIVP GAVIFDLLVG DPKNRPTAAD  
GEQAVENAF GTHNGSGSVG AGTGATAGRL RGGFGQSSRR VGKYTIAAGV VANPVGEVVD  
LTTGALEGRP EVMGVGV DKL-KSAAETLNTT-IGVVATDAPV TKAQAKRLAL VAHDGLARAV  
RPSHSPMDGD TFFAMSSGDG SGVTPVELGE LSAHAA

> RXA02409 (1-414, translated) 138 residues  
RAQSVPKDPL AEMTGMTSGH KEAPTDPALA RLLPDFQHEG DEEYDGDNSF LRSLEHGDIT  
RAKLENLRVI NDALGPDGNV AVTASEEEAH AWLAALNDIR LYVASGDVRG GEAAEEDREN  
LVQWLAYNQE SLLEAMMN

> RXA02412 (1-480, translated) 160 residues  
VAIIIVIAFVL LFNSLVAPNN SSSPVAS PST SESVEQTISE SPESPSATED QPPSSATETP  
RNRPAQPSLP AGASPANDAA ATQTDAGNLN NVYTGSASTS AGFAQAVRDA FVNHYLDTNE  
LSGRVTATSP VTGGNYTMNC EDNGEYVTCT GGNNAVYIS

> RXA02417 (1-2124, translated) 708 residues  
MDMNSSDRLA LRTALEKLSA SATAMASASN DIKDLVARLD AQEMSLIDAN PAPTAPAPTAP  
PEAQLEPQPL VYATASTAPA LADVSGTNRI PRFVRHRALD PASEGWPLGV EKQKVQAPAY  
PHPVRPARPA KPPMTSEEKI MRGVAIGGGV ITVAGVILLV SVAIQRGWLG PLGRVIGAYL  
LAVLLLGA AH YVRKRGRTRVE ALVALTVTSQ IAFLATTS AI IFILEWWPPG LGSLVALIGN  
IGFLIVGRLW SLSKTEKSAA EGHTVFVGAI AVSGFSAILF ALSADAWWPI FSIVAALLLS  
YRISTNIIRA SMAAFVILQ FVLSASWQTM EWPATIVGTI TAVLLVALTL WDPFKITATD  
SHDIALEEYW RSFETNPVST WVGAVSPVLI VFITTSMFIA VDWPWLALIP ACABAALGIF  
ALRSSDTASI ENQRM SRIA VVGLALIAET VFQLFYGDLP TNPLLVMVFL IAGAALFMWL  
RMLPPQRQLG VVPVVAWLIA AVAMTGVLLR NVVSISPLWL TDTQALIQAL LILVFIAATI  
QVRRSFYGHK LWLQILVGLT LLTLSAISIV TITTFIGRLI AGNAGMMLGF LIGHATVSIL  
WMVIAAALML NRKLLDAPGA LWTGVGLAVA GTFKLVFFDL VALSGVPRAI AFLLSGIALL  
TIAAMRGRRT SENKADVARP QVARHGATSH KNEEPSHESP SSSPTTTL

> RXA02421 (1-810, translated) 270 residues  
MTLLLPILQ AAGINPEDAL AMRHVFISIH EDTNSNGITR ESKDEEILAY TASQSSDPRR  
FPLNPPRFWM VFIREGGSQA RLWKVVENHG EVTNDGVRRV FNLTEIELMD DLAGRLVIRW  
NSPRKWWIKG TTAALYTVDT IADAEPIFP GFDNLVLSYP FLQEV MREPA YASWRTALGA  
VKGIYLITDT RTGRHYVGKA EGLENIRQRW NSYATNGHGG NVKCLKQKPD TFRFSLLRVF  
DPATPTSIIN AAESHFKIAL DTIKHGLNAN

> RXA02423 (1-216, translated) 72 residues  
MIRKLARPML ASVYVADGAE TVLNTSAHVE GTQVVLDRI R YVLPRKYAKR ISRDP ELVTR  
VIGGTKVCAG SC

> RXA02425 (1-630, translated) 210 residues  
PGAFDELTSV WGEKGGSWAA VIGFFGGIAL IAIIDRLVPT AINPHEPSTV GGAVEGFERR  
NRMMKMGVLT ALAIAIHNFP EGFATFLAGL SDPMIAIPVA VAIAIHNIPE GIAVPVPLRE  
ATGSRRKALG WATLSGLAEP AGALIGFLLL MPFIGPEALG LCFAAVAGVM VFISVDELLP  
TAISSGKHHT AIYGLIAGMA VMAISLLFI

> RXA02427 (1-387, translated) 129 residues  
VDFELGKRCP CGTGLTYGEC CYRFHSGEVV APTAEALMRS RFTAFVAGNS QYLLDTWDPE  
TRPSELGLDM GIDFYRLDIL ETTGGGPFDS TGTVKFQAFY KGLASGVQEE DSTFRKVNGA  
WVYSTGDVD

> RXA02428 (1-1134, translated) 378 residues  
MAATLDLPDT DPIAYAMFAH CFTGSRFTPA AARVSKTLAE SGVACLRDFD PGLSQSEGDF  
SKTTFNSNVD DIVAASQWLT EHYSAPQLLI GHSLGGAASL KAATKISCLK AVATIGAPFD

PAHAVLHFAD RICDVEDDQGA VTLQLGGRDV TISREFLEDL AEVNPEDHLR RLRKPLLLH  
SPTDQTVGVD NAQLIFRVTR YPKSLMTLDK ADHLLTKDGT AQRAARIAN WVEPYLVPEN  
VCEDLPFEVA EASTIKASKY GAAIRTGGHN FITDRDKSQG GKNLGFPTPS LLVSALAAAN  
SQTIKQAAID NRIKGLDDVK VTISQEQSAD HGQIKLRRKI SLIGNLSAD SASLRAASNS  
CSITQLLAQG IVIDDEVN

> RXA02430 (1-186, translated) 62 residues  
MSPVSRRAE FRINEGEFEV VDVGSLNGTY VNREPRNAQV MQTGDEIQIG KFRLVFLAGP  
AE

> RXA02433 (1-600, translated) 200 residues  
VKLFKATAVT FTVAALALS ACSSDDSSS ESSTSSSTSS AASDAATOYP TAEELNAILA  
VATDPEAPIE EKVKTQVQSE NAPELFETMT QAKVESGAEF QVVGSVLPY DPTSEVLTTV  
MFQLPDRAEQ EAEGVEFVNT DGNWQLSQDW ACILITNTVA PEQVPAMCVG TDASSAGIEE  
APAEAGAVVE EAPVEEVPVQ

> RXA02437 (1-810, translated) 270 residues  
MSTIGNLKLK VDGARKAYGT YADYRDRKVS ETYDALSQAA GEYAPKAEQA VETARESAKE  
FYTESRDKAG NVTKAARARL EKALAEADKQ GTSALKDARE SGKKLNRRAR RKADKAAKAA  
RKATEKKESH WVRNLSLAL ATSGIVAVAY AFLNKTKEK PGTQPPRVEV QLKKAVEQDE  
PEVVAEAAVE EPELVYSTES PETTEAPAEA TETPAETTEE EAKTEAELEA ELEAEADAEQ  
EAAEEAEAEA IQAEFDKKNA PQRTOSEKKK

> RXA02443 (1-954, translated) 318 residues  
VILKIDFNNG ELFGASSAKN FRKLLAVPAV AASLAFGITA CSAVDDTPDI VVTNINLGDV  
VSHIVGDSAD VQVLMKPNAD PHSFGVSAQD AAAMEHADLI VANGLGLEEG LQSNVDNAKS  
QGVFVLEVGE HIDVIDYSPG VPDPHFWTDP ARMIAATEVI EAEELIKELDP SLTESITQSA  
QHYREELVAL DEEVTLLSG VAPENRKLVT NHNVFGYLA RFNYTVIDTI IPGGSTLAAP  
SASDLNDIST AIEDNNVPAI FDTSSPQRL AEVLASNAGI DVQVVSIFTE SLTDADGEAP  
TYISMQKINA ERIASTLS

> RXA02444 (1-1278, translated) 426 residues  
MKNSKLLLIA AVSTASILLA SCGTDSSADT ATASSSATAS SEAHHDHGHE AEGSSTAVEV  
SSPQARIVTT YDGGIITLDA NTLIELEDTE LAGFNRLNSA GDGRHVFTVST GGGFQLFDTG  
AWTEPHGDHT HSYTATPELT DITYSTDKPG HVVNHAGKT VFGDGDGKIQ IFDTASLLKG  
DEVEPEIKNA LKAHGVAVV LENGDLHLTL GDEDSRNGAV VFNAAGEEIA RNEQCPGVHG  
ESAALGDAIA VGCEGVLIY KDGEFTKVQA PDSYGRIGNQ SGSDVSPVVL GDYKVDKAD  
LERPERVSLT NTETGELTLV DLGTSYSFRS LGRGPAGEAV VLGTGALHI IDANTGAIN  
TYPVIDAWTE PEVWQEARPT LFINKDRAYV SDPSNNELHV VDLANGNILA SATLPGTPE  
LTGVSG

> RXA02452 (1-180, translated) 60 residues  
MTPAGPAQLL IVALVVIVLF GSNKLPDVAR SVGRSMRIFK SEIKEMNKDQ IESSDQTLKN

> RXA02454 (1-813, translated) 271 residues  
MHLLNFYWD VLSNLTFR DAETYSAYLV DAETGEFQPN LSESRRLYDV DIARVNIIGE  
LMDLQAGECL DKSIDVIALG GLVESSYLEL WTELTAESV DASEYWRLE RIDRLNQLGF  
DVGELKVT KD SRQVVRIRP VVDPGPHYRA ELLSLTGLSV EEHQARLLG SIQAYQAVEC  
GPHVGLTQAA HLWMTNEYEP TIAAVPVEML DKLEPAQIFH EIVDHRWFLA QERGGAVTLP  
EATASYLESV LPARRDEARL LSTNPSDEDL S

> RXA02457 (1-1110, translated) 370 residues  
MEYFTVNNPQ DPLSTEIVET NRRDLAFWHR LRPKDDDDLA TAINKICVRT GLSRKLIAC  
LFSICFLPYL PNFHKLVEKL GHLDMARINA ITKAGEKVPS EKRELFDAYL VDYLTPEAE  
QCLPQASSIS AMMRKFIAQH CPDDKASSAT NDGSIRYRRN NKGGISITVD ATASEVTEIK  
AALEQMSKDK DCTPGTSLH IIRGLPTKV LNTYGTCDSP EYLEGGTWLS KEQSEFWKTR  
TTSSRDMDAA HFSYTTAYAP TREMRVYIKG LRTTCSVPGC SVAVENCQLD HIIPWEGGGP  
TTPWNIHPLC VFHHIQKTEG RLQCYPLPDG TVLFLVDGIP VFSIPDGPLS KSNKTWGTKE  
GKYMERRIAA

> RXA02459 (1-735, translated) 245 residues

LARRSYDESD VRVRPGKGR PRTKDRPSHE NALVGMVVTK DRGRWGVVLD GRQDAIVTMR  
ARELGRTAIE VGDRVGVVGD TSGRPGSLAR IVRLEERTSV LRRTADDDTP FERIVVANAD  
QLLIVSAVAD PPPRAGFVER ALIAAFVGNL QPVLCLTKSD LADPAEFAAE FEALEVPVVV  
CGVDDPLDPV LEVVEGHITA LIGQSGVGKS TLVNRLVPEC RSLNWCVRVG WQGSAYVDAV  
GRSCH

> RXA02460 (1-504, translated) 168 residues

LRVYIPATFS TLRGLNESRV ITARSGYGFA VTPALLDFYT DGDEEEIAHA AFQDAAEASI  
RLLAIGDEET FPYRRVVSV DVDDSVVTYQ PENGESVVKL SPAHINLDDV AAHIDVEAS  
EADTKKAIEV IDESDLGEED AELTVGDAQD NFWAWYDPEE LPFLVELL

> RXA02461 (1-408, translated) 136 residues

MRGLIVDYAG VLDGTDEDQR RWRNLLAAAK KNGVGTVILS NDPGGLGAAP IRELETNGVV  
DKVLLSGELG VEKPEEAAFQ AAADAIDLPM RDCVLVDDSI LNVRGAVEAG LVGVYYQQFD  
RAVVEIVGLF GLEGEF

> RXA02464 (1-507, translated) 169 residues

MGTTTPDDSR TPEITQDIEIT DGRIVAIGQS VAAVYTNDPS PRIVSYNDG ELVGEQAVDE  
VEFPDPPFQS ATADLPHHMS WFNGDSLVLV SPTQLNVRQS FNDALGTGIA LNGSLLYPTA  
EGITVANWDT GEVQRTIPVD RAGYDGEVAL GVVGVVIVEK RGSEIVALG

> RXA02465 (1-399, translated) 133 residues

MPASIRWGGI VALIQSTIGF GYAFFLIYRE ATGETDPSIV YETDNANTWV GYGTAFFII  
VFGTVVAGAI NMMKGHRWGR GAVVMLNIIL LPAAYMFIE GRFSWAIVTG ISALFVLGAL  
FNKRAVLWAN NEI

> RXA02466 (1-87, translated) 29 residues

VGEGQEQTFT YVIEIEDGVN TAAYGGDDA

> RXA02467 (1-225, translated) 75 residues

MDIKIGFADT ARELVISSAL QQDEAAAKVS EALANDSGVL DLSDEKGRRY IIRNSRIAYV  
EVGTSAPRTV GFAGA

> RXA02472 (1-291, translated) 97 residues

MSFVNITALT FPAGAEKEIE QRFAARKKAV DTAKGFQEF ELLRPQFGEDR YFVVTRWDSR  
EDYQAWSDAR PAGNHADDEQ RGMSVEVLGF DVVPLEG

> RXA02473 (1-741, translated) 247 residues

MVAEYPDGSS EIFPVTLNLI PEDTLVYDAV YKFKSIRTGS EDQITPFVSN QPDVPFPAGT  
SFTLTGYEIE DQLRSAGWK ELNPVTGELS VTPVISVIYP DGSRDNTIAT MESVGPDDSE  
LFKPDFDLIP IKSGDYIEIG VLAPGLPAGT EFHLDYYALP DRFFDLGGST SLSGNGKFSL  
GVPLTWNDL QLPISITFPD GSHTVENLHV DVTANFAGN PIDEPKDDDK DHPQPAPKPS  
GSSFGSS

> RXA02475 (1-1155, translated) 385 residues

MLGLSRRKFA MLAALTAGIV GVVATGCSTP AEPETIDNPV FIGISIDPIK NLSPNHAANL  
FALSADGSGG IFQELAPTYF PSIHRLGNGF IAPDRDSLTV VDASLKEVYR HEVARLGVGM  
QTQSARSPLH KSAVAFSNEG TAEAPYRHRI VSATEKTSAS AMTDQRHFAL TACDDGSTRW  
VEYSPDRGME DPMGPGSARI VTLQADGELS EIDVEWNFPD RPSAPIILSC EDPSAYIVSE  
EDIIYVKDEV SPAESIGKLP AYEIPDRAR DTVSGEDYFA FTSTGMLTRI NIPQAKIVYA  
QSIDLYGKHP VSITFSDRA YVVTSGDSGE SLLEIDLNDP TCTSDQLSLT GFNKLTLTARK  
PKPEPSIIIE TILPIDPNYS LGCKS

> RXA02478 (1-1236, translated) 412 residues

MRTSLIARGL YRIPALVWDQ GLLTLFDARL SVDDLPAID VVSARSSDGI TWTTPPEPAIV  
ETEHRGVGDV CLVTGDLCHF GLSNLAGFFE DPTDLEPRLA RRDVSGWTSI SMAHYFADVD  
AAFASSGTGL VLADGRWIQS FVVRRGREIS LRILRSDGHI TDIAGGNESA MTQLPSGRIV  
LHSRGVGHRL SSVSDDFGET FTPLEPVPEL IDPGCNGHVF YWKAAGMLAA THLADPDLRR  
HLVVDLSSDE GATWAHRITI EREEAAYSTA AEMPNGDVAV VWEAEGTRAI KCTVISVNDI  
SLRIDEPID AISLRHVVIN DDHDGIEVAL PDASQWGEV FKIVSNPDAS TQKIRTRGKP  
ARQTLIEIGE LVFDIRKGGE VAYGVTVPYD GRSGLKLNRI LEWGCRGRFA VL

> RXA02482 (1-810, translated) 270 residues  
 VGVAKSKKSA LPKVLLTIVV ILLLLVLVAE FGLRFMIGKQ LKDEFQAQAS SQGISATEEP  
 SISFGASPLL LGIARGSINE VTIDTPDSVS ITNQDGVPSI SGTPESTIQL QGLDIGDRDN  
 PVADHLTLTT LATDDFILAT IQQQMAEATG GNSTSQGFAE QLIQELIKVT DITSDAANQT  
 IEVEFTDGAA RASLHPIVTN GQLGFEIVDS QLFQFGLPDE ISQMLTDALQ SSINEVAGGL  
 QIQSLEVVDG GINVTLTGDN INIQTLEAAQ

> RXA02483 (1-813, translated) 271 residues  
 MADHAHNLRA SFRKGANGKQ KPIGVITRGT TGVNRLRRFD RWCFHHPKIR SLLDATSLAL  
 DVGYGASHTT TVEWGRWLHR LQPDMDVIGL EINPERVLEP QNGVSFELGG FELAGYTPQL  
 VRAFNVLROQ DVDQVEAAWE TVTSRLAPGG LFFEGTCDEI GKRCWTITLN SDGPQELTLA  
 WDPWGISTPS DVAERLPKML IHRNIPGEKI HALLAAADLA WDYCAGWEPH GPRVRWEKAR  
 EMLIDQGWPI AVSRRRVGDS LLTVPWETVA P

> RXA02484 (1-501, translated) 167 residues  
 MATRTENTIT INQPVGKVHQ ALTTEAYWAY IAENLSPEAG EVNEFTAADG GATATLFEVL  
 PLEVLPFAVR AMISQALKVK RVLTPALTN NATTVEYNAD VKGTPVDFKG TIAINGDDAA  
 TTFDYSNEVS VNIPFMGPAI EPKVADALGE LFANEGALTE KWISENL

> RXA02486 (1-636, translated) 212 residues  
 MTEFSDVPGT AAPLHRALEN AGYSTLES LD GVPYKTLIAL HGVGKTGLGR IQAALLERGL  
 SLGEETKGAT ITPGHTGKVA SDIKTHITSV DPVAYVDGLE GRRVAHGHQL LSIFGRVTGA  
 EPKMWGPMSI GYGSVHYVSH TGREGDWFQC GFSPAKSKIC LYGLKDSPRG EELLQKLGKY  
 TEGRGCVYIN KPEDIDLVDL EAMISESWAG QG

> RXA02488 (1-369, translated) 123 residues  
 KLTATGVDVM GTFYPEGEAL APITLNLNE VVCDEPETPV EPEVPVEPET PVDPETSVD  
 ETPVDPETSV DPEKPGDDNK DDGSNSSSNG DILGILGILA ALGGVGALVY NFLVASGFLA  
 AFK

> RXA02489 (1-624, translated) 208 residues  
 MNRFPSALLA ASVAGAAALAI PATSAHAAES ICTFTGDVGV NVRDSFNLSYL LGNIANGSAY  
 KYKGGLDVRD GVQTDGNGKT PALTWVDSV TSSKISTSGG AHWGHNLYP GDDLAEVPPN  
 FTLDLDFSNI TVELSGSTGR LLVDYTSREY INTHTLGEFQ TGEQAELATI TFAKAPDLTS  
 NSVNVTDGVA LTADGVEVFG GFYTAGEE

> RXA02495 (1-2568, translated) 856 residues  
 MALTVLSVVL GTAFLCGSLL LTHSLERTFS SIVDAGVEGV DVGVIQQNN PDGVPFVSIA  
 EIEQYPEVRA VNIIGDGPGR PSGTTMTGQS ALILTDSDGN PLQAGSSGTH PLAIYPQGEW  
 VSPEPTLIDG HFPTKPEDEV VNASAAKRG LSLGDHLTIV TPTERIDATL SGTFSNTDV  
 AGWVGVGFTP QRYVELLTNG TDASQITIAV NDGADPMAVR NRIGKNHRDL LPLLPEQIID  
 QTTGDTDRQL EFMTYVLLAF AAIALIVGSF IIANTFAMIV AORTGEFALL RSIGVSTFQI  
 GFSVIMEAVF VGLIGGFIGI AVGFVGVNAL VQVLNQFGDT LSSIDITYNA GSFIFPVLFA  
 VTATVLSSIS PAHRAGNLPP VQAFESSDAR SDALGRIRFL VAAVMTLGI SLTIAGAVVS  
 AINGDEFKTE TRLAFIGAGL LLVFFSLSLG GPALMVATSQ TLGVAIMSPF RAVGKLAQRN  
 TLRNPRRSAT TALAVTLSVG LVACVGVIGA TTRASVFGSM ESTIKSPYVL DSIGGTMIPI  
 QPAGGSRSLS MSAAVAQEI QTRGVGKVG TMTGVSQVNG WDNENTTIFD GDLSQFLDLA  
 VRSGDAFDDE TPGVMISTTY ADQSDLEVGD TVTVNPGSD DGIRVPITGI YAETNLVGH  
 MVNAAATNRV LTSADTYHRS QIFVNGDGST TNEELRDILV DAVAPFLIVQ VKSKDEFGRS  
 LGTQINQLLG IYIGLLALAV IIAVLGIVNT LFLSISERTR EIGILRATGV QRGQIRMIT  
 LESVILSIHG AIHGLLLGTF IGWAIVSCLR TRGMAPVEFP WTQIGLMLIS AIIIGGIAAL  
 IPANRASRIS PLEAIN

> RXA02496 (1-807, translated) 269 residues  
 VNRSNSSSVF LGFPESSPAA ASIRAGEELP LDFPREWYEF TDPTDIEHVF SIDLTWLESN  
 WNCTFGTPDC LGIDSENADV GCCGHGAFLA DETDRDQLYD AVAQMPAKYW QLRPASTDSF  
 LASDDGTDE PWTWDELDD EDGNPEPALK TTVVNGACIF ANRAGWETGA GCALHQWGVN  
 ANEDLTVVKP EVCWQLPLRR LEAWEERP DG QEILRTTITE YNRRGWGNGG EDFDWYCTTS  
 PRCHTNAEPM WKTQETELRA LMGPNSYEV

> RXA02498 (1-804, translated) 268 residues  
MSEELTVAE LMARAAKEGR STDAPRRRRR RSIEDGGVSV AELTGSIPAV KEKPAESKHS  
SVPIDAPAEP EVVEAPKPEP AEEVEVASVE GDVDKQETPE RPAPSNEETM VLRIVDEKDP  
ISLTGTGAFPV VPAAAKPAP VVRAEKDADV ETAVKADFAE VEVDNTDTTQ MAVVEEVDEE  
PEQENKMSVF AIIMMAIVGV VLGVVVFLGF EMLWERLNKW IVAVLAVGVT LGMVGIIHAL  
RTSRDGFMSV LAGIVGLVMT FGPLAIVM

> RXA02500 (1-99, translated) 33 residues  
MGSVIKRRRK RMSKKKHKRM LRRTRVQRRK LGK

> RXA02505 (1-171, translated) 57 residues  
VAGTHAYVNE TLSENEFSMC RKNEPGLVIE LENISIDRIV ISTPDHRYA DELMAAV

> RXA02506 (1-882, translated) 294 residues  
MHLNQLEFFI AVAQHGQINR AAELLISQP ALSRQISALE KSVGAPLFER HSRGVSLTKA  
GEILHEEARL TLRMQSVVD EIQSGEHLIT SINIGVPPGI PIDWLRCQLI DLGPETRISL  
IESPTDDQLK LLKQRELDIA LCRRQSEAF TLLVHEQELG IVVRKNSLH QKVAGKDNAT  
LFDLEGLRVL AHSRGEVRIQ EEILKNAMLA AGVNATWIFR KFGQYSSLIA DLVQADVALT  
TEESARTNFP SWQWVPIEGE DASGNDLVVR TWITWNPQPT PAVKALIQKF IDGN

> RXA02510 (1-636, translated) 212 residues  
MDSSDSHVGGQ DVYVDQGLGE PDRLERLWAP YRMSYINTRS GKGQSTTAKR DPFIEVPKMS  
DEDGLIVARG ELVYCVLNLY PYNAGHMMVI PFRKEKNLED LSLAESAEML LFTQTAIKAL  
KQVSNPDVAV VGLNLGKASG GSVGDHLHVH VVPRWSGDAN FMTVIDGVKV LPQTLRQTRA  
MLAQAWGTID GAPGTVDPTL TSAIRTAAPK EH

> RXA02514 (1-837, translated) 279 residues  
NSHNPTPVTI TVTGKGEVGT SFGAISIEVE AGADAIVALQ YVGSNGTHADN VEFIVGDNAR  
LTVITDTHWN ADAVHLSNQL AQLGRDATLR HTVATFGGEV VRIVPRVRET APGGDAEMLG  
VYFADDGQYF EQRLLDVHAV PNCRSNVLYK GALQGDKNSD KPDARTCWVG DVLIRSNHAG  
TDTYEANRSL VLTEGARADA IPNLEIETGQ IVGAGHAATV GRFDEHVFY LQARGIPAE  
ARRLIVRGFF NEVINKVPVE SIRGELDNRV SSELAVLGM

> RXA02518 (1-411, translated) 137 residues  
MSEHTENTTE VEDQNASTFE AQSSERPEQS EADLAKASDV EYMRDVIDP ELGINVVDLG  
LVYDIYIING NEAHIDMTLT SPACPLTDVI EDQARTAIVG NGIAEKMSLN WVMPPWGP  
MITEEGRAQL QALGFAV

> RXA02519 (1-1806, translated) 602 residues  
MFSAPLRRMM RVTKDEQIQP NSNAPENRKW FPRAPRPLRQ FLDTLPRIGT AGSRSATLHV  
EDEQSPLGAT LFDVATGASS INDRDTHDASG LEPEKIRRF WRLIGTMGA LMIAFGALGA  
GALPVVNNPY VDFPGGNFMS RMLQTSSMIV LIGVGFLVLA WVLMAPLVGI PFKRSGNRTA  
SVSLSMLRRT FGAWVAPIML TAPLFTQDIY SYLAQGSVTA QGMDAYAGGP LELLGPDNHL  
ARSVPFIWAQ SPSPYGPVAL SIAASISVIT NDSIVGGVLA HRIASLLGVV AAGWAITMLA  
RRCRVSEAS FYLGVLNPLL ILHLIGGIHN ESILLGFLV GLELGLRGTD RIQTGLWGPA  
WTYIALSGVL ISCAGLVKVT GFIGLGFVGM ALARAFHARG HRHVVAIGVA GLVQVAALVI  
TVVVLVSVIT ISLGWITGQG GAATIRSWMS MTTNIGVISG FIGMNLGLGD HTAAMLVVTR  
AAGIAVAAAF MVRMLFATYR GHIHAVGGLG VATFVLVILF PVVHPWYMLW AIVPLASWAN  
RLFFQLGVIA YSTAFSFFVL PRGLALPVG VFSIYFGAAL GFSILLLVGW WSLRRNPTFG  
LH

> RXA02520 (1-684, translated) 228 residues  
VGDVVKGNDA HTGDGTRRK ILLILLERAP VIASDIAEQL QLSTVGVRH LDNLVEENLA  
EAANPRQNPY EPKMRGRPAK TYRLTDKGRS IFGHEYDSLAAALATLREV GGDDAVRQFA  
RKRIETIVEG ITPADVTDQS IEDTAKSLVE AFSRHGYAAT VDATRNLQQL CQHHCPISTV  
ATEFPPELCEA EHQAIVSELLG QHTQPLATIA DGHGICTTNI ALTPIKHS

> RXA02521 (1-1443, translated) 481 residues  
MTSATNPGV NEPLTDDQII ESIGPYNYGW HSDSDAGASA QRGLSEDVVR DISAKKSEPE  
WMLQORLKAL SIFDKKPVPT WGADLSGIDF DNIKYFVRST EKQAQSWEDL PEDIKNTYDK  
LGIPEAEKQR LVAGVAAQYE SEVVYHQIRE DLEEKGVIFL DTDALKEHP EIFQEYFGTV



IPAGDNKFSA LNSAVWSSGS FIYVPKGVHV DIPLQAYFRI NTENMGQFER TLIIVDEDAY  
VHYVEGCTAP IYKSDSLHSA VVEIIVKKG RCRYTTIQNW SNNVYNLVTK RTKVEEGGTM  
EWVDGNIGSK VTMKYPVWVM TGPHAKGEVL SVAFAGEGQF QDTGAKMTHM APYTSSNIVS  
KSVARGGGRA AYRGLVQINA NAHSTSNVE CDALLVDDIS RSDTYPYNDI RNDHVS LGHE  
ATVSQVSEEQ LFYLMRGLA EEEAMAMIVR GFVEPIAKEL PMEYALELNR LIELQMEGSV  
G

> RXA02524 (1-690, translated) 230 residues  
MTETTPQPPK PEPELPKFLS NPERADIILF IALIVMGIFS LCMIPLRWMM LTQPLAYTLI  
VGGYTSVAVG GANASVENGI WWVYWLCTLI GALKFMPVYW LMGKRWGMEF IDMSLOYMPR  
FHRMFKKSV D SESTRLYAWI IGLIPLAYLP GPVPGTILNA VAGLVKIPFW IIMAWNAICV  
LSVNGLFMWL GYTFGEQVLD IVNVVNRMYL WITLGLLALM FFRARKQFAK

> RXA02525 (1-378, translated) 126 residues  
MTTMREVSTD LNILIVPSEW EKVLENLPAT LSESGFVASE IHSQIVDLTC EPDNMLVTQF  
SQLEGHPPIV EVLHRLVING SSDLEKDLT KKVVGALPQG TYWYGTSLG ATEPGVNASC  
AWQHRG

> RXA02534 (1-804, translated) 268 residues  
MNSPNADIIL VVNKLSKFID IENIMLVGAR CRDIHQQKYR DQTAGRRTKD VDFALAESW  
DDFNLLKQQF SPTGNAWQGI TIGNIPVDLV PFGNIENPPG EVLSRKGHLL NVAGFKEVFE  
QAELYPLNDA IDIKLSTVPG LTALKLHAWL DRKENNIKDA SDLALILSWY EEDVETLWNR  
YFALENQGYI GEPEAMAAEL LGLDTGRILG HKETQALLDR FNEQSPPELN QFAESLEAPP  
EHSHPLERRR IQVEALLGGL RDSLGYDE

> RXA02537 (1-462, translated) 154 residues  
MLALKSSELE GIATSLTAVA GALHESNTDR LQSWQQLETM TSASSLIQGF IKLVLDYNRPT  
VNIVEQMHKT ASTLFNTADF LRTLEGYVDV LEKQADKSIT LTVMLRYIAS LSSLLDLMCA  
REINALCTAI TPEPLKHLGD FGTLPQQST SFIW

> RXA02538 (1-672, translated) 224 residues  
VNAPPEIRAL AEAHPDMQIL EAGDGSLSVAS FGDIDRATTV TTIVAGVGSS NPEGWNTYVD  
RARTVSASTG SATVLWLGYQ APASIPAAVS GAAANRAAAD LQRFQALQS RNPHQRKVVM  
GYSYGSTVVG KAASSGELSA DALVLVGSPG AGVSHSSQLG APVYAVTGSA DFIGFAGTQY  
DGIHGTDP TA ALFGATVWDS PSTHSGYWND QEFLGNVAEV VRGK

> RXA02540 (1-438, translated) 146 residues  
MASTPKKSND EGQFDRVDFQ GEVVISVAA ELAGMHAQTL RTYDRMGLVT PIRTRGGGRR  
YSRADVELLR EIQHLSQEEG VNLAGIKAI ELGEENRNK ESLRKVTAEN EQLKDQLRSG  
RPRGELVHVP RSTAVVMWER RKGRSK

> RXA02544 (1-1428, translated) 476 residues  
VSHTCGIVIF VSTESGNTPK RDDAKSTIPP KDLPTVLDA IEGNFEPPLN TQKSAVPPNA  
EATVEADSEG TTDRSVILGR DGRWLSGWAL RFIVLVIAGV IALRMLGFIW VGILPVVIAL  
LVCTVLWPPV KWLREHKIPT ALAVVITILG FFALIGGVFA AIAPSVSSQT KQVVDQATVG  
IEDLMDWVQG PPFNLDISQF EGALNDLTSM LQSQSSTIAS GVFSGLSTAS SIVVTLAVML  
VLTFFFLKDG PRFLPWMRGF TGENAGWHLT EVLTRTWNTL AGFIRAQALV SMVDAIFIGI  
GLLLLGVPMA LALAVITFFA GFIPVIGAVS AGALAVIIAL VTNGVTNALL VLVILAVQQ  
IEGNILSPFL QSKAMNLHAA VVLLSVTVGS TMFGIIGAFL AVPVAATLAV WVRHSEMVA  
LRAGEITSDD IEIATTKGSP TSLNGQETLA AIRSRFAILG RKKPTSATAE KADSES

> RXA02545 (1-558, translated) 186 residues  
MTETLFVSAT TEEAVYLPDG IDLLVTGIGT TAATMILTKE LATREVLPAR IVNIGTAGAL  
VDGLAGVYEI EYVLQHDFFS ELIAEMTGKP CSNGSTLATS GHFPVASLAT GNSFIADSET  
RNHLATRASL CDMEGAALVG VAKHFGVPIT LLKQVSDSAD EEASGSWFDA VDAGARQLAE  
AVKEFK

> RXA02546 (1-1104, translated) 368 residues  
MPLFIDDALH RSKKYFHAHL SELLLGEFAG LSLPLHPPTA AKAAADIDAT REFIRQWEGR  
DDVEYAIRNW SPVGLGKTEV PVRLTLNTE ELVVFAQVED EWSSLHERFS QLSGFTAENV  
AKHVSLWRSL SNDDLSKAVL VVDWFLKHPN SGLLKRAVAV EGVHTKWLEN HRVLIETLVA

DKRGEPGRAD LGLGDAEARV RLRHFSVDAP AGLTDIEVPL SNLCELQEPQ VILMVENLDS  
FLALPTWPGV TIAWGAGYRA VDIVRGPFYS NGRLLYWGDL DLDGFKILDG VRSHVPHTES  
VLMNSETVSR WRYLGVADRE FKAESFDNLH DFESDALDL ITDGELRIEQ ERIRLDVAVE  
EIEKVIRG

> RXA02549 (1-1326, translated) 442 residues

TLTAISSETW PIMLAPWVCL PLLSRNVDA AIALSLLPAA CMGAVNATAT MAALIPAALI  
LLYRGLFLRL LLWGMGVLA NSWWIGPLL LGKYAPPFTE FIESSSVTTS WLNPEVILRG  
TTSWTPFVDT ERQAGYLLVN DALFVTL SVL VAALGLIGLT LMKHRGLWAF MLAIGLLILG  
SAHLTAVQEF LDGPGAALRN IHKFDLLVRM PLMVGVAALG SHISLPLLGT TALTSGQGKH  
HTIPLPLQKR QAAGLLVVII AVGALAPAWS ARLLPQGTWD EVDPYWYEAT EFLNQATGT  
RTLIWPSSPF ARQDWGWTRD EPAQPLLDVP WAVRDAIPLV PPEAIRGLDG LDDLGTLTGTG  
LNDEALKRLG IGAVLVRHDL EADPDIEVDL PGEKHTFGSQ GQVDVYLTD PDRNMWITSGT  
SKQLPTVAGG GEILSLLDTI NG

> RXA02552 (1-795, translated) 265 residues

VGKHAETSE PKNNSPWRIG LLTFLISSV VTLVGMVMLW PDSDDVVLAD NFSQTFAGNH  
EQVDGTITLV DNSACNSPDT GRVFAESPTI SAEPATLECV RALVDITSGA NEGQKTQLIT  
YAPGDPFEFS EGDKIRMVET PDTNGEIIYT FADYQRPAL IIWGVVLIVA MGAFAAWRGV  
RALVGLVVTG GIVGIFLLPG LASGHDAMWL ALVCGAAILL IVVPMVHGIN WKSAAALAGT  
LVALLLSAVL SWASIVTTEF ARTGR

> RXA02554 (1-624, translated) 208 residues

MSHTKPSIAI LGAGRVGSSL ARSAVAAGYE VKVAGSGAVD KIALTAEILM PGAVPSTADQ  
AVKDADIVFL AVPLHKFRSV NPATLEGKIV IDTMNHWPV NGELEEIDQD PRSTSEIIAE  
FFAGSTMVKS FNHIGYHEIE QDAGTGRAIA YATDDVDAGA QVAQLIKSFG FVPLNIGALE  
NGRILEPGQE AFGAHLNKDS RLELVNQR

> RXA02555 (1-603, translated) 201 residues

MGEQFPDGKN IRVSDTERSA ALAALGQFYA EGRLSLEETD DRCEAVADAK TRGDLNAIFY  
DLPNQIAVV DRSEQTYTAT EVAELHRKGA RPRAGILGLT TVLAITGTAA FASTAFATV  
LLALIPIVFI MLYVMKIGPE SWHAPTFRQL QRKRMIELRE KEKLRDMELK AQRKERTHAL  
TNRALDAAET AFNTKPWKKN K

> RXA02564 (1-675, translated) 225 residues

MAEVGAEPAG SAQSKTKQFV VGTAADVITA IAAFFSIQSA SGGEDIRSNM TLIAPAAAAGG  
GWDTFQREQQ QSMRVNKIVN NIQVVNIPGA GGIALGKLS TMTAPNTLMV GGTGHIAAQI  
QFDTPAKIQD VTPIARVVEE FDIITVPADS PYNTLEELIE GWKADPAGVS WTGGGSFDQL  
VMTEIALSAG IDPKQTTFIP SDGGGEAIIQA LLNGTAKAST GGFAD

> RXA02568 (1-1359, translated) 453 residues

IPAAPSAPGS AIPTPGTAIP VPGSATPVPA PGVSAPGASV PSIPVPGSVT PPAPGISAPG  
GALPTPGSAP PTPGGALPTP GEALPVPGAP GAPGASGIPS PGLPTPGVPT PGASLPVPGA  
PDAPGTPSIP AAPGIQAPGI PAAPGAPAQA AAHAKPVFQD AEKRPRTDEA GNAKKEPLR  
VRLAQPIRTR QWAMTLGVLV LGAIVVAAIA VVLAKWAFTT EWLQDFVEKY PGKYDNPEGA  
PVGIPTWLSW QHFFNMFFMV LIIKTGIEIN RTRRPKGYWT PKKGGKKISL TLWIHLVLDL  
LWIINGAVFI ILLFATGQWM RIVPTSWDVF PNALSAGLQY VSLDWPTENG WANYNSLQEL  
TYFFTVEFIAA PLSIVSGFRM SSWWPKNNAT MNKLIPIGFA RALHMPVMVY YIVFICIHVF  
LVLATGALRN FNHMYAGQDV VNWWGFGWFV ASL

> RXA02569 (1-750, translated) 250 residues

MSRSSKISVA FGGLLIAATW LYLVLVRPTD WESVGGSTEAL LITLVGYVAG TIALLVGVLP  
TLPARTIAII PVALVLNILL QQVTGSFVIP LYLDVAGTVL VAALAGPSAG LATGALSSV  
WALFNPLALP FAAGSALTGW LTGVVVIKGA FKNIFATIIS GAVIGLITGA VAAPVAAFVY  
GGTAGVGTGA VVSLFREMGN SLLASVTWQS FISDPLDKAI VMLIVFVVVK SLPKRTRTAL  
VPQRPEDVA

> RXA02570 (1-642, translated) 214 residues

MNPLTWIIGA FSMWIVVLGV NKLGLSIAVI IIAQVVMIR VRNVSVLAST ALLSVPALAS  
MALIHMPYSS DGWLIATLT ARFSALMSIF LLAATAITIP ELVKSLYRWP KLAYIVGSAL  
QMIPQKQTL ALVRDANALR GRSVKGPVRA VKYVGLPLIT HLLSAGAARA IPLEVAGLDR

PGPRTVLVEV VEGRVEKHCR WLLPLLAVGM AWWL

> RXA02573 (1-444, translated) 148 residues

MTNKTMLVAF DGSPESRRAL EYAAKLLQPR TVEILTAWEP LHRQAARSVS LITLGVEPED  
PAHSAALKTC QEGVELAQSL GLEARAHMVE SATAVWSAIV DAADELRPDV IVTGTRGISG  
WKSLWQSSTS DSVLHHADVP VFVVPPLD

> RXA02575 (1-1158, translated) 386 residues

VKNSGKNSAK NRTKGILIGV LVGLIAIFAG IYAVDVFLNK DNIPRGTTVG GVSISNLSAQ  
EARTKLETEL ANDVVQPVTV TAGEQSTTFD PVASGVGIDW DATIEGTGEQ SWNPITRFVA  
LFKESESPIV STVDPAAFPGP TLDRMVGELY RDPISGNLHI DAGTLVVNDT IDGQAVDRTI  
LEQAVTENWL NPEGVKAEPY VVPAAISQDT IDKLAEGAGA KAVSSPFVVR GDDGIEGTIP  
VERMGEVVSF PEENG TIRVD INAEAATAML AEGLKETEIE PTNAQISFSS GSRVVTPEVT  
GHGINWEETL ADLPNNLTGD GPRTIDAIYE DTPATFTATD AQNATFNEVM GEFTTGGFSA  
ASGTNIRLTA QMVDGAVVSP GDTFSL

> RXA02576 (1-1422, translated) 474 residues

MTPTRRILLW AWTTVLLGSL LWPLAAPGEL LLRDMSVVDH PALSINALGF GDLPSRNAPQ  
DGV LALLGFL PVSWIVRTML LVAGFAGAWG AMRLGPSKFL AVTVAIYNPF VVERLLQGHW  
SLVMVWLFPL LVVALRRHPR WQVVAIWAAS LTPTGAVVAA VTGVASSKRK RFTTLC SFLS  
WLPWLIPALL ATPTSGGALT FAIRSETYAG TLGTALGLGG IWNAGAVPAS RELGFAVAGI  
LLFAILLAGF KNCPWVLALL AVVGFMGAIG PWLMPNLTW TIAYVPGAAL FRDSQKLLML  
AIPAYVCLAA GVKSPLSWVA TGLALLQIPD APREVSVIRP SSAHVESVEA LAE IADGRDI  
LIIGQGPLVT REDGIPVVDV KTKALSVVES GELRVDGIIT DAPSQRWTEA TQAWAAGDIE  
RLEELGVGVV VDGDITITETG APPQHGWKYY LGVGLTVLWM ALPLGLLFRR KTKK

> RXA02577 (1-885, translated) 295 residues

MGAYDWVDII STCEFSKGKVV AVFMKRSATV LIIAGVLFLLI FAFTVPPYVT QOARTIPKDL  
DLTLVSESPQ GFVRTEHIVT APTEKVDEIA THVDQTVTDV QGKTVAEISD DVVLIGH SRY  
PVIKPTATIS GSPADSSNVV REGLHYFFPA NTLRNSYPY DIVLGEDSPV DYVSREGNTY  
TFYQHLRYVP LDDSH TYSVE RTLKVDRFSG IIVAKDEAMT FHGPDGDDTV EFTYTADTLK  
LLQDHAHDID QRLSWAKGFD FFSKFLGLSL LAIGVFLTGI FKRQQLMSTV NKLRS

> RXA02584 (1-351, translated) 117 residues

MSLLCDSIAI GLFALFARVA HQSADMPLNV QGWFFTWLPPF LAGVFIAYLV AILPAKL PSE  
RIRPAGLTWV ILAVIVGLVI WGFNNGGVPH WSMIVATTA SAILVLGWRA LFKVTMR

> RXA02585 (1-981, translated) 327 residues

MGIQQIRHVS PVGVALTMVA LVLSFVAMAR VMQIMLKAGG SPATLKATTA LTFAANSWSA  
TLPGGPAFSA ILTYKVQRSW GASAVLCSWF FLLSSALSTV WLVALGVIAV FYMGASLN LW  
SLIATFIAMV GLSGAVYWAA NNPDSLARWV RKLTKNREWG FVEKLLGSIE QLRVSLTGP  
QFAASTAWSL GNRLFDAISL WICIWAVTGT APMFEPEPNN TTIAGVLLAY TTAKIAGSIQ  
ATPGGIGPIE AAYIAALVAT GMTAVEAAGA VIIYRLCSFI IMAIVGWVIY FIYFT PQGLK  
ANESLDVEQD TINSDSNRQS AIERPDT

> RXA02588 (1-684, translated) 228 residues

MSDVHEVIHS YNPTDKEGPE SVLLVWDAPN LDMGLGAILG GRPTAAYRPR FDAIGRWLLA  
RAGRRRAHEL RHIEPEATVF ANITPGGSDV VRPWVEALRN VGFAVFAKPK IGEDSDVDPD  
MIDHIRRRYE EGVLRGVIVA SADGQNFRET LEELVAEGIP ATVIGFHEHA SWAVAHD TIE  
FVDLEEIPGV FREPLPRVSL DNLPDGGAWL QPFRPLTALL SNRHNSQE

> RXA02591 (1-1830, translated) 610 residues

MTTAAIRGLQ GEAPTKNKEL LNWIADAVEL FOPEAVVFVD GSQAEWDRMA EDLVEAGTLI  
KLNEEKRPNS YLARSNP SDV ARVESRTFIC SEKEEDAGPT NNWAPPQAMK DEMSKHYAGS  
MKGR TMYVVP FCMGPISDPD PKLGVQLTDS EYVMSMRIM TRMGIEALDK IGANGSFVRC  
LHSV GAPPLEP GQEDVAWPCN DTKYITQFPE TKEIWSYSGG YGGNAILAKK CYALRIASVM  
AREEGWMAEH MLILKLINPE GKAYHIAAAF PSACGKTNLA MITPTIPGWT AQVVGDDIAW  
LKLREDGLYA VNPENGFFGV APGTNYASNP IAMKTMPEPN TLFTNVALTD DGD IWWEGMD  
GDAPAH LIDW MGNDWTPESD ENAAHPNSRY CVAIDQSPAA APEFNDWEGV KIDAILFGGR  
RADTVPLVTQ TYDWEHGT MV GALLASGQTA ASAEAKVGTL RHDPMAMLPF IGYNAGEYLQ  
NWDIMGNKGG DKMPSIFLVN WFRRGEDGRF LWPFGD NSR VLKWVIDRIE GHVGADETVV

GHTAKAEDLD LDGLDTPIED VKEALTAPAE QWANDVEDNA EYLTFGLPRV PAEVHSQFDA  
LKARISAAHA

> RXA02593 (1-213, translated) 71 residues  
LKIAHFDLDN PADESSYIFA RSLAEVDGWT LEFGVAGVKN TIVSSIDDA ITTILRWMNG  
EDIRDLNWTR A

> RXA02594 (1-324, translated) 108 residues  
MEAMATTITV FSPTHSPAQI RETILSAAKE DDVDFLGVPE THPRNVTIEV DDELINDCLG  
WLDDVALASG LGIQYNDEV LRYGDEDISFT VQTKNDDAR IGASRLGL

> RXA02598 (1-591, translated) 197 residues  
VTTDQNKRS L SELAARIVSE ICAPWVLNIG FFLILGGVTG AWTLGIVAAI GTGIVPMILI  
LGLMKLGRVG NHHVTTNRQR GLVFVGIIVC VIILIFILRA LEAPQLIWDG MFSALIFLVL  
FAQVTLKIK SVHVGLWVCL VMFLGLTVSS WWLLGLLFTP VTAWARMRIK HHTMSEIVAG  
VVTGAVATGI CYALLLA

> RXA02600 (1-1398, translated) 466 residues  
MQPFPLSLTN SSVAGIAAGA LLFLSVPFAS PVHAQTILOD TLEVTVLDNA DELAPEDEDF  
LSTETPKIDF PDSVTAVRYI TLDNTDKIN DDVENYLRAE HPEWIQTNSF APGEVIIAVG  
FDPNTMGAYA GNDVAAETGI AEQDRIDGTT DAMRPLLQDG RIALGMLEGA KSVADTSVVR  
ESSAPSGGVI AAILGGIAAL VAIIVAWATS YANKKKA EKA REQFDYASRH YGEVAQQLDG  
INVRAHSLTS PLADDELRRQ WDDVNSRFLE VNDIFGRLEG LTSTSENKAF RKALPDIEKA  
HTAVTQMEIA QKNIDTLYDM EHGHEDETRRR ELTRLRADMQ EARQDINDKD AVVDDILRTL  
IQRTETIAPS APDFMDQYAR LIRDYAVALQ GVEKNLEQVK QTTERNAPAI YDDNWRVGTG  
YNSWVPYYMI SSWHAADVSA ASSASSSSAN TTFSSGFSGA GGGSSW

> RXA02601 (1-1989, translated) 663 residues  
MKGEDTSMSA TNLAVEQLQR VLLPRRGEP DVSRLYLLEA ESNKERLEWE DRFSVSVVAG  
AEVSFQTYFN AFPASYWRRW SQLDSVVLKL KVSGEARVDL YRSKIDGARI GITGSVVKDD  
FIEFEVSLAP FEDGGWIWFD LTAETDATVE EAGWYAPHAP KAQIMPDGSE VGPFEARATV  
GIPTFNRPAD AVAALEALAS DPAVDAVIDT VIMPDQGNKH PADEPGYKAA VEHFGRDFEE  
FRQGNLGGSG GYSRIMFEAL GGVDGKGEAG AAKSPYILYM DDDIAIEPDS VLRLAQVARY  
AKSPILVGGQ MLNLQERSHL HTMGEVVG GH DFMWTAAPHV HYDHDFSAP LHDRGKFDDK  
PDAPNSRDLH RRIDVDFNGW WCMIPRVVA EQIGQPLPLF IKWDDAEYGL RARKAGFPTA  
TWPGIAIWHM AWSKDDDAID WQAYFHLRNR LVVAAMYHQG SVDGIVRSMQ KATFKHLLCL  
EYSTVAIQNE AMKDFLAGPD QLFSILDTS L PRIAIRKTY PDAVVLPSAT ELPRATGAPG  
VPTKDIGGRL APIKKAMWLA KGLKHSLSKE DASHHEVPQA NFAPIEARWF SLSRVDGATV  
TTADGRGVVY RKRDRDKAKE LGKEARALQK QVAERFDELS RAYRNAHPEL VSREAWGKVF  
DEQ

> RXA02602 (1-504, translated) 168 residues  
MSNKEVQILV AIQDQLMDAP GVLPTARGLS LLGEHAAGWL ALGAGGAVVD KKRRRSWAGL  
FIAALGSHAA SVIIKRVRR ARPHDPAIRI GVGTPSKLSF PSSHATSTTA TMVYLARITK  
SPVPLLGPI MVL SRMVLGV HYPTDVLGA LLGAATAEAV HKIERATK

> RXA02604 (1-2076, translated) 692 residues  
VLACGLMTFS PQRPEFETGK QPDPETE HAG DFFEETSSSA PRAASNGSSG PNYTLITTF L  
AALTAGIFAF WAGWTRKWIS DDGLIVLRTV RNLLAGNGPV FNAGERVEAN TSTLWQYCIY  
LVALVTDYRL EDIALWLALL FTTAASIIGV LGTAHLHRKR IAVLLPAGVI GYFSLSPARD  
FATSGLEWGL SLMWISIQWL LLVLWATSGK TSGKKASGAK TSNPIVNAGA ITYALAFWSG  
LSWLVRPELA MYGGLTGVL LLTAPRWRV LGILVAALPL PAAYQIFRMG YYGLMVPHTA  
VAKSASDAVW GTGWEYVEDE TGPYNLWLGL ALLLAAGALT VWKTDKHLAI PKGRLGLRTP  
GMAIALLVIC ALVHFLYVIR VGGDFMHGRM LLLPLFAIL PVSVIPNVV DRGWQDLVAL  
VLVFSTWVWS TVVFVQGHQW ENTGQHVVD RDFWIDFTNR DEDHPPLYAE DFLTVDMSND  
YAEVMRDQTL VNPTGQQLNI LASSDPTTYS WITTPRVEGV EAGDLANLSP TVFHVNLGMT  
SMNAPLNVRV TDLIGLATPL AARQPRIEGG RIGHDKLMDL EWQVAESATP LAYTPGLWDT  
OKTYEARQAL RHPVLHLFQ TYREPM SYHR FVDNIKYALT TGR TLEISDN PEDLLKEFNP  
TPAEIQDGL TIAWPGEIKL DEPRGEPLYS SQ

> RXA02606 (1-1371, translated) 457 residues

MQEIHTIMKH MDALIADPSA AAFKATLPFA ELLEKLHNKK ALFDAALAKS AERADAGRII  
GKTSHIDALA YLLDISKSEA FRRTKRAEEH YGNPSPEPSS EELAKETPEE KLAREEKEKQ  
DLAEQAEANR IAREHGISAE KQDTIRYELE KLNDNTSLSR ASLRKLAMQE ATSRTPEDLR  
NWTRNKVIRI NPTAKDPLAA VKKRSLSIGR QDHDGGAKAS LYLDAGLAL LKSLMSKAKP  
GHLLDSLAE DKRTKPQRQY DAFADILHRA HSDLLPARSG VGTILVLSA KDVNTLKASG  
PDHRYPTSTG IKLTPLEILR LGAAKYDFVT VLDSESGRPL HLARTQRTAS LYQRLALFAS  
ELVCTREGCD SPFEDNEIHH IRSWLDGGPT DIENITNICP HDHGNNNDQR DGKDNMGHMN  
IDPTTGRVGY QPADRRKPMR FNNTAAAAES GGAQART

> RXA02609 (1-249, translated) 83 residues  
VERSAEAQAF LDALKDEKID ISGVEDQLIA TARNYCSEN KDQNVTVDAV AGQLIVQGRT  
SVKEDQAAEI STLLKESADR TYC

> RXA02610 (1-927, translated) 309 residues  
MRKTITVIAV LIVLALIGVG IVQYVNTSDD SDFIGQPGEP TGTETTEPPV QPDWCPAVEV  
IAAPGTWESA ANDDPINPTA NPLSFMLSIT QPLQERYAD DVKVWTLPYT AQFRNINSQN  
EMSYDDSRNE GTAKMNEELI NTHNECPATE FIIVGFSQGA VIAGDVAAQI GSEQGVIPAD  
SVRGVALIAD GRREPGVGQF PGTFVDGIGA EVTLQPLNLL VQPIVPGATM RGGGRAGGFGV  
LNDRVQDICA PNDICDAPV NVGNALDRAL AMVSANGVHA LYATNPVDFP GTTTNAWVVD  
WATNLIDNG

> RXA02617 (1-507, translated) 169 residues  
MSIKHALLVL MLDEPTSASQ LQTKFEETMG IWQLNIGQVT QTIQRLQRDQ LAETAGTTVS  
SNGRTVDTFQ PTDLGRELVA QWFESPVTVT LSEDELVT K IAIAESRGLN LIPLLDIQRN  
TVMAELRALN KSSRDLAETR NTQRLLEVEKR IFELEAQARW LDRIEALQ

> RXA02619 (1-900, translated) 300 residues  
MRSVVLELLE NWKESLVLHP SLTELADAAP LAQDFATVRG VLKESLDLLG NALNHGEEPA  
ELAGWLSQVI TDVLHSPGLD AHVVLTGPVG RGDALPTSPV RWLAVVDSQE DPNEKISALL  
TEVGFIAPPI GAATREEWEQ RARAGEDPEV YLDAGTWVAA IAEVDDKALL QDALSSRPPA  
VETYEGLPSL DMVVNIRENL MIPTVKIARW AAHKAGSLAP TTAQRLVDAR GVLTNDEVDA  
LTQVWTSALS LQSKRWMDHI HDQETTAWEL PALQRATFGA SARLLSEVLR SVEAREIDTK

> RXA02620 (1-654, translated) 218 residues  
VGRPRRSAPR RAGKNPREEI LDASAELEFTR QGFATTSTHQ IADAVGIRQA SLYYHFPSKT  
EIFLTLKST VEPSTVLAED LSTLDAGPEM RLWAIVASEV RLLSTKWNV GRLYQLPIVG  
SEEFAYHSQ REALTNVFRD LATEIVGDDP RAELPFHITM SVIEMRRNDG KIPSPLSADS  
LPETAIMLAD ASLAVLGAPL PADRVEKTLE LIQADAK

> RXA02624 (1-714, translated) 238 residues  
QGYDDASV ALIVLSILYL PNMMIFAMGN LIGSPYFGD ASISVFSVHS VPLPPLFILA  
ALPSEALSWA VALLVIPAI ATWVCVRNPM RLAVNTTAAV ISALCFLVLA VFAGGTLGVY  
NYVGLNLLAS VGLVFVYFAL VGLLIAGIDK LRNPVEVKSV KAVAVVEPEP EEEVEDEEEH  
VEEEVDEEEE EVEEGVEEVE EDDAEDPEEN PEEESDEEI ETETEAETN DGSEAEDR

> RXA02639 (1-834, translated) 278 residues  
MIALGSAPKL VASDVGTLI NSSERVQRL RDVITRMTNQ GVTALSTGR PPRWIHYVLD  
QLSVKPIVC ANGAVLYDSA ADEILAAQTL SPEVMASAVM AARAALEEHL GVSIAVERAG  
KSAYDPADL FLVTPEYSHA WPSNDHGTFE EAEVLSEPAT KLLMRSDYLD SKQLFDIVRA  
SVPEDQVHVT FSMGGGLIEI AAPGVTKALG VSMLAERLKI AQKDVITFGD MPNDIEMLQW  
AGRGVAMGNA RPEVKAVSDH ITRTND DAGV ADVLEWWF

> RXA02647 (1-462, translated) 154 residues  
VALSVFTPVA QAQSSDALQ LSDNITSSQI LDDGPNPVDG NETWPGSSEG SSMLSNGDIP  
AAPSLSSSGK DTSDDDEIS EEQQALIDRL SEMPVIGSIV SPPEWLAIPF AVLQGLLAIT  
TLASTAASFV VTDPSFKQT LRDMLTQFGI NVDA

> RXA02649 (1-1002, translated) 334 residues  
VLKRFSHSS PQVLSRKVVA SALALTTALA LAACSSSAEP DSPEVEQAVG LAVDTPRVVV  
VDPGTGDLQR LQYKDIAPDA TQEQTINIAE GFAQSVVNAD SVDPQAPAGG DVTTFHLPVK  
ATTEEAFFSD QEMVSATRDI SLLFGKPTYT DLSQVEDVNS TEGFTLGIRA TDSGQHTLS

FAAPVDSTET GRMLMEQYLL TFTSLPIVFP SDDIGVGAKW TVDSRVGTGES TLLQTVTYTI  
 TGIDGDKVNL DVEVSQRPSM GALEITDEES DETTGQLTVL NSNTTSVGTG EVDLTQPLPT  
 SGQVSWTTRV IYGGSSNEQVR VVQDSTSSVS FGDQ

> RXA02652 (1-579, translated) 193 residues  
 MDGVDKGRRV VALLAILALV VVVAILSFSR RTAKPMQLNG DMLGQDNTET SVEYRQRASE  
 SLENAAVGEE AYSLVTFTQP LSPSEASNLL KGVGRVNAV MLASAPAMDLP EPIAGETRED  
 VFNRIKLVLD AQLSGIGNVR APGELNGVVV WDIPQKVRVL SESSLVYSVE TLPPDAAWGS  
 FGIRPVDTSG TNF

> RXA02655 (1-984, translated) 328 residues  
 MSPEAKEAQD SRRNEMPEKK RAVLRKAIKL EWATIAWVLF SIVLVGVVAG QSQAMRSAWI  
 EDMLSLVPPI AFLLASRISK AVATRKHYPG KHRSAIGHQ AAALALLIMG SLLIYEAVSA  
 LIKGERPPIG LAILFGHDVW SGWLMIGVMI SVSIPMVIWG RVKINLAKDL HDKLLYADAD  
 MAKADWGTAV ASTVGVLGIG LGFWWADAVA ALVISASIIR DGVINMKAAI SDLGDGRAMT  
 YDNSAPHPLN DDVEKAALEM HWVKHARARI RDQGRCFHTE LFVEPVEGYT PAPEEITSLV  
 KRIQNLDWKL QDVVASVVEK IDRFAQPS

> RXA02662 (1-264, translated) 88 residues  
 MRRKLTTTLE NKPGARLGGF RALAPTSKIA LVFLLLIIFLL AIFAPLIKY DPLASGTPVQ  
 PPSGEHWFGT DAIGRDIFSR VATAPEPP

> RXA02665 (1-480, translated) 160 residues  
 VTNPIIPRVG IATDAHQIEA GKPCWIAELL FEGVDGCEGH SDGDVVAHAI VDALLSASGL  
 GDLGSFVGVG RPEYDGVSGT QLLKEVRELL SAHGTVIGNV AAQLVGQTPK FGPRREEAQQ  
 VISEIIGAPC SLSATTTDHM GFTGRSEGRA SVATAVVWKA

> RXA02670 (1-582, translated) 194 residues  
 MEDES VKSLN LAARRGALVT VAAASALALA SCSAGQITQT SSQVAAVDGN QAGSANDPVL  
 VRDVTVHLTT DGEAGVKFTA INQDTSHTSH TLESVTVDGE EVELDDAEPI ERNCSLVADI  
 QSELDLIEEP EVGCIQHVAT SLENPGFAYG GVVPVEFVFD TGAITIDATV SAPVLESQVE  
 NREVGGDAT AEASHH

> RXA02672 (1-1098, translated) 366 residues  
 MTPTTTTVSN PDALSTGTQD VHTLKGTQLR LAPGTPLRDG LDRIVRGHTG ALIVIGDDEN  
 VSSICDGGFE FDVSFAATRL RELCKMDGAV ILSSDLERIK RANVQLLPSP TWPTQESGTR  
 HRSARTALH TGVFVIAVSE SQNTITLYVE GKSHMLEQPA ALLNRANQAL GTMERYDRRL  
 DQVNNRLHLA ELHSYVTVID VVSVIQREEM LRRVGEIIDG DVLELGKDAK EIQIQLSELR  
 GDNDRERESI IADYLVTDGI PADEEIHAAE EAISHLDDKA LLNPANIARV LGLPPTTEAL  
 DEPVTPRGYR TLNRIPRVQK FLMDKLIVEF GNLDALLNAS VEDLSAVDGV GSLWARHITD  
 GLGRLS

> RXA02673 (1-633, translated) 211 residues  
 MAALLVLLVV IALIIWAVVA LRGGSSPEEE EQPNNVAVTS SMESSTSSS SSKESTTEAT  
 TEEETSSAEP TATSSVAADA KKTCELSDLV ISASTNQPTF SGSAQPELFM AVHNPTAVDC  
 EIDLEENKLR FEVYNLATNA RIWSDVDCNP AVEDGTSVFP AGEDRYFQAT WSRTTSAPNQ  
 CNNRTDVPAG GYYLHTTVGN NPSPAVTFNL T

> RXA02678 (1-918, translated) 306 residues  
 MRMAKTKKN EQLPEGMSRR QAKLAARAAE RAALEREPRP FEGLAMESQL VALQEFIPSA  
 TAPITVAGTD RKITLCTVLP GAAAALVREE AFGGEAFVAM QQAIRSNNPS KDALAFALNWV  
 INAKAGESLA TATADGTQPE LKSLNDADT LEITTHQDFN WWLAENDNLS PEVAQHMQAA  
 NDSILPSHEV EADVPGAVWW VNPGGKAHIR WVRTENETAL FNALARIAAR GELNLGEETK  
 FAGAFRTHGI VVPVWDLDP RPSTDYADVL VALNEKIVAE LDNDAQLNAD ERRQLENIKS  
 RQVTIR

> RXA02679 (1-426, translated) 142 residues  
 VAPSSGDDTV DVGTCRTLLV SELNVDLWAT DLEVDAVAGG GVVLGAGPV DVGVIQGFAD  
 GIEFSFGGFL IGEANPVCDD IDEQFLLIG EVRAFQAGAG WVVARAARCA HHGIQLFTLV  
 ELCLLLFGAE VVEGEGGFVH VA

> RXA02680 (1-1284, translated) 428 residues  
MRLNKRLPAA LSGLLLSAAL LAGCSTSGTA ETTTTTVSSA AASTTTSTSS ASSSSSSSSSS  
SSSSSDSSTA ETISNTAEAA QAFLSTLSTE EQDAVLYDYD AEEKSTGWSN FPVTFVQRSG  
VNLTDLTEEQ QAAALNVLKN LLNDDAYQMI EDIMASDQYL NDESNTTEDS LGQYYIAFFG  
DPSSSDSDSI QFGGHHIGIN TTFSDGAITF APTHLGTQPS EWTNEDGETV AALSNMYETA  
FAFYDSLAEQ QQAQLYQGEE LDSMVCAPGS TCDYPTGTGL KGSDLTDEQK ELLIDVIANW  
VGLADEETTE TELDAIRETL DDTYINWSGA TEYDTSTGDG IYFQISGPKV YIEFANQQGS  
AGADIDGVIT AGWGHIIHTIY RDPTNDYANS VTQEAASGMM GGGPGGNGGE MPSPGDMPTGE  
MPSGAPSN

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> RXA02681 (1-444, translated) 148 residues  
VGWGECDGTG GEGGVDADV SAELDGPVGV AAWIAEECDV VLAEGILGGV AFVVEVLIAS  
HDVFDHLVGV VVEQVLQHVE GSCLLFLSEV GEVHAGTLHE GDWEVRPAGG LFFGVVVVEY  
GVLFFGGQGG QESLGSFRGV GDGFGGGA

> RXA02683 (1-678, translated) 226 residues  
MTLLENSSGD PGSDSGGARY SLNSLKVSEQ AAANAVLKAV LNDVSYQEFA DSSYLEITGT  
PSADGTWGIS FGGPSESASV EFSGGSISFS PVDMTVPATR LPQMGAIFYET LTEEQLGML  
TGLAVSTVDS SQQEMLLDLV SNSIGLADTE TTATAISKIR ATLSETYLFQ TPDGLTLALS  
GPHVDVEVSH QGSTAKITYR DPSTDTLTAE DRVDTASVAA APPEVV

> RXA02685 (1-657, translated) 219 residues  
MSGRLRSILRL IDDLAPVAL NDQQVALNAS MANSAWLDTL LQLCSAGVLF SWGALAIYLL  
GERFQWIKPK DWAWAGLAA LIGIPGLIFY ASAVHLGLSK QVVPTTLETW WEIPVLLIWS  
AANAFGEEIV VVMWFFTRLR QLKWSVPAVI VTSSVLRGSY HLYQGISAGL GNIIMGVAFA  
YFYHRTGKIW PLVIAHFLID AVAFVGYSAI GGNLSWLGL

> RXA02688 (1-669, translated) 223 residues  
MAGRIILLRH GQTHNNVKHL LDTRPPGAEL TDLGRKQALE VGHELATYSG ERLAHVYSSI  
VLRAQQTAVL ATSTFEKARD MQSGAIPLDV VEGIQEINVG DFEMRGDEEA HMNYSRALNG  
WLHGDPAAAGL PGGETYKDV LNRQPTLDRI MDSHDLDDDR DVAVVSHGAV IRIVATHATG  
VDPNFAFNTY LGNCRFVVLE PNGKKFSQWD VVRWTDSPLE WQE

> RXA02689 (1-342, translated) 114 residues  
MIEVSDERFE ELVELAFDQV PQQFLDHMRN VVLLIEDFNP DSPYILGLYH GVALTERTFN  
HGGLPDSITI YKGALQNYCN SEEQLVEQVR VTVLHEIGHY FGLGEEDLHR LGYA

> RXA02690 (1-1098, translated) 366 residues  
MSTNFDTS TS PEGETKKNSS FRTAASVQTM LVAALAATAA VGVYSYNTDN SANGGESPTG  
PEQSTVSTTA TIASFTTADV GQCATWDVNN EGLVSGFEQT SCDQEHREFEI SARENLATYP  
SSEFGPDAA PNLTRQAQLR EELCQSPTLA YLNNRFDPSG RYTIAPILPP AEAWAAGDRT  
MLCGLQATDA SGTPQLTVGP IAANDQARVF ETGACVKVES SAEFRQVDCT EDHLESILT  
VNLGVFPFQG APSTDEQNNF LGNTCTQASI DYLGSEENVY QSTLQTFWPT ITSNSWLGGG  
HSVNCFLMSP STEGAATFNT LNSGATGTFT INGEVPPPQP ERDPLRDTAG TTASAEVGV  
VEENAP

> RXA02693 (1-1647, translated) 549 residues  
MVSLPRLASL LTTRLATLKP ALKPATHLAS LGAQVIAELV PGIRMSPNRR RILPANMGAG  
FIGAEIAMWW ALSPSLLPKP WWVTAANLAV LQAVGHAAAT GIHSILPRTN RRVSRKIYNA  
THIATGATL TTTVVGLIRH RTQIRLIGQK NFGPKETIAG ISVGTLYGYA LLITGELTQH  
SINEVKLLIE RFLPPWISFI AAVSVITLTT LTLADRVLLR RILHNSAIQA AHLNRMVFP  
TEQFWEPERS GSPWSYEWG AVGSQGRAVL SGGPRKDDII TVTRLSDTET HEPHIFIGM  
VPGRLSDQV DLVIHEMRRT GALRRDHVI NNSTGTGWIT DWSAHTFEFL TGGNCVTISM  
QYSYLPALS WYKDNDGPI AARMLIDAVL HELDQLPTGS RPKLFLAGES LGAYGLAEVW  
GDVEKLLGTA DGVLLSGAPR FSDAMNALRT RRDASSERL PVIDSGRHIR FAGEPEHLD  
PATWQFPRMI VAQHASDPV WNAELFIRR PEWLKTPKQD HQDVFNRLRW MPFVAGWQVA  
LDLFTSTSV

> RXA02696 (1-456, translated) 152 residues  
MSMLKKTKEF FGLAPYEAH EDAYYADEPR YEGTAAYAPE YRERDYGYP EAPAPVAPSP  
APRSYQSTIV PVELHSFEDA QVIGGAFRDG DAVVFDMSLL SREEARRIVD FAAGLCFALR

GKMQKIDSVT FAVVPELSNI STSELERAAR IR

> RXA02697 (1-699, translated) 233 residues

PFVWVWIGMH FAGFLATKKG KDSPTLKQOV PAFFATGAAG VAVTGVVVSA ITWASGASWG  
WISEISGNSK VINPLAFPSL VASVITMVAE VFVDDFDYNA VVNVVRSISM LIMLGGLVVC  
WWLFRQNER AVTGTAAAYA VAFVNSVTL PWYYASLISL LGTFKPPMWL IRFAAGASVF  
IALMFTGSGN HQLYNIVTVI IAAIIAWLAT VVIFDDTDPA TTATEKPSPH TVS

> RXA02700 (1-1236, translated) 412 residues

VVPSLQQWRK PALILAILTV LGVLLTHWFA WPLTWPLGLR LPVDVEVYWQ GAREFWLADD  
LYDIRYDTTF DNLPFTYPPF GALVFTPLWW IHDLFGLLVT ERVFALITLL TTYAVAVFLL  
RLAGVRDRVW EFVAF AALLV SAPVYFTLNI GQINVMLMAL TLFDFVALPRS TRHSGVLKYV  
PLGVLTGIAA AIKLTPLVFG LYFLILWVVT KSPRGLFGMI GGFLGASGLA IIFRPSISIQ  
YFTDVLFTAE RIGDLHFARN VSIRAVLERL PELGSAASIM WLVAVALVII AVAVAAAYRIL  
RTDLSAHNRL LAVSLVSLVA LLCSPVSWYH HWVWLGPLIV ALWLTQHRWL ALWGAFVTF  
GSFHNFLPSE NNMELTWPWW MHVLAHYLI FSAVVTAVFS CGKMPQKTEL SH

> RXA02701 (1-1308, translated) 436 residues

LTNPQTAHAA ASDSASQKEA PNPSLSITVG IKDLLGLLSV LGIAAGLIAN KILIERYNWR  
IDAAVYREGA LALVNGESLY AQPFDMGDIS LPFIYPPIGA ILFAPWGYFD FITVELAGNL  
VVIGSSLLLL LCLYLVTVNAV LSGRDKLLAF TIAAISWPIA LFAEPVFLNA DLGQINILIM  
ALVMDLLPI KRRIPRGVLI GLAAAIKITP LAMLLYFLVK KDFRGIINAV ISLLAFTAIG  
AVLAWENTKE FFSSTLLNLS AEGDSGVDTT FQSNSSIQAM LYRWWTSKAD AEASSLPTIL  
WIVLSLIAVA AVAYLMHQLF SRGLHVEAVM VNAMLMLLIS PISWSHHWW LPLWAVVFFV  
RYRQHRSHPK FLLWSGVILS VMLLMLPPKW WFGRDGVNVF ELNFEKLLI SDWTWLSIGL  
MITLGLGLKA FPKISK

> RXA02712 (1-795, translated) 265 residues

MTMTNGSRTE SGKIRDRVA DADPRYGRRV SVSRDFSTAE ASGRGASIST QPRRDMAPER  
RHTTRALVNP GVQPTRKRLM QHKLGSQQVM SVRGRRVEAK RADPKVIQLS VLVVILLCVG  
VGATMGLSGT STQQTFLQLE LQATETDLN RIESLNDRDVE DARSAATLAA NATEMGLVSP  
VEPGVLAVQE NGDVVEEERA NPETRPVIDI NGQQTRPNRA SSNPDETNAV TENLQAIPQE  
AAAPPYQTNT VPYAATTGQA GGAGQ

> RXA02714 (1-429, translated) 143 residues

MFLGTYTPKL DDKGRLTLPA KFREDLAGGL MVTKGQDHSI AVYPKEEFAA RARKAAVSR  
TNPEARAFIR NLAASADEQR PDGQGRITLS AAHRTYAGLT KECVVIGSVD FLEIWDQAQW  
AAYQEETEAA FSAAEDDVLG GLL

> RXA02715 (1-390, translated) 130 residues

VSLSEQEORA LREIEQALMA DDPKFGKAVA SNNLAGGGF TLRGIALFVL GLVLLVAGVA  
LSQQTLWFVA LGIIGFLVMF GSGVWMLRGG GSNKISVTSR TSNAKNRQQG NSTIGDKMEE  
NFRRRFEGNK

> RXA02719 (1-648, translated) 216 residues

MTLFQRLTNP VVLGGLAGVL LLLGSFGGGA IRYRGGVLDA LGLNFLAFGH AQGISNTVLW  
VGQLLLIGAW VHLGRRLFKK KVADDTADAA DLGLVKRTLY AMVVPLIFAA PMMSRDVYSY  
LMQAMLRDG FDPYTEGA AV NPGPMLLEVS HDWRNTTTPY GPLHLWIGDM ITTVVGDNVT  
LGVVAYKILS IIGLAVTGWS IVRIAQHFGA NPAIAL

> RXA02720 (1-627, translated) 209 residues

LERREELQVR LQQVQARIDA TLNEHNRPEG SVRLLPVTKF HPVEDIKILQ EFGVTAVGEN  
REQEARAKAL ELPDMDFHMI GQIQSKKANS IARWAAVHS VDSEKIAEAL GRGVALALDR  
GDRTSDELPC FIQLSLDGDG SRGGTPLSQV TQLADCISDT THLRFEGLMC VPPLGWGPEK  
AFSQARDVLS GLEEHFDRSL EFSAGMSGD

> RXA02721 (1-738, translated) 246 residues

MDSLDPNRNP VRKVFTTRAG GVSQSPYASF NLGDHVGDDP QAVASNRNRL ADIIGLSPDK  
VVYMEQIHSN TTVTVIDEAPA DGQAVEATDA LVTTQRLGL AVLVADCVPV LLSDTDAGVI  
AAVHAGRMGA RRGIVAKTIA KMEELGAKPS RIHALMGAAA SGANYEVPEA MARDVEAKLP  
GSIARTTKGT TGLDIRAGLL RQMLSLGVQM IDSDPRCTIE DEDLFSYRRE GTTGRQAGVV



## WLPKEA

&gt; RXA02725 (1-612, translated) 204 residues

MDNFEHSNAS IRLQAALAAG TAEDTTAIDI LLYRSGVEED FFVRDMITWA LTRMPVDDVF  
 TSLVADLDSE VPDRPFGASQ ALHTLSKLRV AQSQQELQAR PWLLHREDTA QTAWRTFVGL  
 VPDDQTAWLA HQLLQELDKG TPEIQRSLSR AMAELEGREA SISVLLGALT SAHAVATAKL  
 IADPDSDFMA DLEEARRVDN MGAC

&gt; RXA02727 (1-912, translated) 304 residues

VVLLPLLVPQ LQVQPQLQLP SLLTRQRCAR KSKRSCAPNT ASKLDDASKA AQKAQNDAKS  
 AQDQLQRAQA DAKAARDEAE KAKAEAKSAA SSSTTKAAAV GAVGAGTGAA VATGAANVDT  
 HMQAAKVLGL AQEMADRLTS EARSESKSML DEAREAAEQ IEEANSTSNR TLEDARANA  
 KQIAEAQNRA DTLVNEADAK AKNLVSEAEK KSAATLAASR SRAEAQIRQA EDKANALQAD  
 AERKHTETMA AVKEQQNALE TRIAELQTFE REYRTRLKSL LEGQLEELHA RGSSAPTNNK  
 PSGE

&gt; RXA02734 (1-384, translated) 128 residues

MRIAVTGATG SLGGHVVDL LNKGVASDI VAIVRNEEKA ADLKARGIAL GVATFEDETA  
 LTAALEGVDR LVFISGSEVG QRVAQHTNVI NAAKATGVTF IAYTSLNLG PQSLHLLQST  
 LQPEKLLA

&gt; RXA02735 (1-705, translated) 235 residues

MVDVVRARDT EDLVAQAASK FIEVVEAATA NNGTAQVVL GGGAGIKLLE KLSVDAADLA  
 WDRIHVFFGD ERNVPVSDSE SNEGQAREAL LSKVSIPEAN IHGYGLGDVD LAEAAAYEAE  
 VLDEFAPNGF DLHLLGMGGE GHINSLFPHT DAVKESSAKV IAVFDSPPKP SERATLTLPA  
 VHSKRVLWLL VSGAEKAEAA AAIVNGEPAV EWPAAGATGS EETVFLADD AAGNL

&gt; RXA02736 (1-957, translated) 319 residues

MIFELPDTT QQISKTLTRL RESGTQVTTG RVLTIVVTD SESDVAAVTE STNEASREHP  
 SRVILVVG D KTAENKVD AE VRIGGDAGAS EMIIMHLNGP VADKLQYVVT PLLLPDTPIV  
 AWWPGESPKN PSQDPGRIA QRRITDALYD RDDALEDRVE NYHPGDTDMT WARLTQWRGL  
 VASSLDHPPH SEITSVRLTG ASGSTSVDLA AGWLARRLKV PVIREVTDAP TVPTDEFGRP  
 LLAIQRLIIV RTTGSIIITI YDAHTLQVEM PESGNAPSLV AIGRRSESDC LSEELRHMDP  
 DLGYQHALLSG LSSVKLET

&gt; RXA02744 (1-804, translated) 268 residues

MSKPFENSAL RGSSRFPGT FTPAPKRATP AKMLAAQGM ESLLFLRHGE QQLLSIIPL  
 VALIALANFD FIPGENSLDK TFPFALATAA MSAGFTGQAI SLAFDRRYGA LKRTGASGVP  
 AWTIIFGKVI AVIAVTIVQI IFLGVTALLL GWSAPVGGVL FGIVTLFVGV SSFTALGMLM  
 GGTLSSELVL ALANLIWIVL SGLAAWAVFS PSVNAEGVLS IIPSVALSQG MVDAFNGELP  
 WLQLGILVGW LIITGVAANK LFNFSASR

&gt; RXA02751 (1-474, translated) 158 residues

VLPIASGNDD RNLIRYVDGG RFDEIMLTGD LTGLSSFLT AGPNARDDFD LTVLMRAAEA  
 GNLMVVARLL DLGANPRLTN PRGVTALHIA AIAGDDGIVE CLIDAGAEVD AVDDQGRTP  
 WNAAAHLLPD SAVVDVLLRA GANVNLRDCN GVSPEDML

&gt; RXA02753 (1-2493, translated) 831 residues

MLDSLKNRFT KAKGSHGVGE GAVSGDAVK PLRKEERLAS VIQETEPGAA VEVMRNDAF  
 ALPGETGWV MLLPTHDSQF GGLNAKEKNR EDKGTIINLV VNDDIHSVVT PELLDSVVLG  
 VIPDADSFDR MDEFLLRNK ARWHYGVA AI EPDTGELVVF KVPKNSASA RGDIFSEVGD  
 VLSGAADLED VVDFEVIATF LEVLNETSEV DIDDEDGDVP YGLEGVNAAG VITDDLIREK  
 LDVDSYPSSA EIIDNIVHVF TKLQGGHHVA PQPVLHSADV VDVAQESHQ TVVIESPDDV  
 ALAEQVDVDP FSDGFGIDDA EVTEPEDEEV VEATADADPF GDVAEDDPFG SDDEPDFGAS  
 DVVAAPAPVA GMSDEQIQAL IRGVSESVQA KTGSELNALR EELAQALAYN PVQDSQAALA  
 QVHAADARSF DADQVGDAVT KRYVNDDLGL YVDEANFNNA LTRAPFQVAM PQFQETTPWL  
 GDQLRTLAV FNGQLLDQH RYEEVVRAMY IALNDRSNLE IARDLGLDNK DSEFYEVYRA  
 IERDRDVMAG DQQRVESERR QQLQQEYEAN REEYVMAKIA EQRVEYDRRH MPRHTASLEA  
 VGRELTSRLD RTIEDYTARM NTLRRARAGE RANAAESRII DELRPIVERQ AELQRAAFDG  
 FIVDLDFKFA DHREDDLRLA SVNEQKLAAD NRVAQLTKEA EERIEGIRVE TDKMIASQRK  
 ALERQEAEEA AELKRRDTIV AASEERAERE ITTARLDAAE ALKRMEEQIR VNNEAHEAEI

VIERDRATQA EANSMTFVES VKQQDRSNNI ILIAVLIVGL IAGMVAGAAF F

> RXA02756 (1-891, translated) 297 residues  
 MTSPYGSQYP GDDNNWNNSQ FGNPSGEQNY GQPYGAPYGO PYGQPFQDQGF NAYSSPIPPE  
 VPQPSMQEAQ WRSFDLGTVE GOAWKGFTAT WQAWVLSALI YFAVLLVLMF AWILPMVSVL  
 AATSSGSDSA AIAATGGTSF FGFMLMIVLA FISEVYSLNC YRNAARVVRG EQITIQSFFK  
 MKGLGKALGI YILINIVIFI GMILLIIPGI IAAVVLIFAV PVAFQLRDAS IGDAFSASWK  
 AVSKNVGQVI LLELAIFALS FLGSAVIIGM LVTTPLTFL YAYAFQTASG GPIMQRO

> RXA02757 (1-546, translated) 182 residues  
 VVKLCLEDERV STDPDFRAAL ERWYGHILRK VSRRARNAAW DRVQDLPGVT VEDDAAKVRA  
 FLPSAVVDVP ADIKKLQISG TELPLDEPNP INDEYPVIYI DESLKMTLGK AAAQVGHASM  
 LLAHQPFWEV VEQWEAADFA LHVREIPSEE FLRLIESPGA VPVRDGGFTE VAPNTVTVVA  
 IP

> RXA02765 (1-759, translated) 253 residues  
 MSNQLPDHVR DAFQVGAGPA EQLGQAWDFG FRVGNVTFAK VTAPEVSGWS SKTRETLPKE  
 GVRVVRPIRS TDGRFVVAGW RASVFSTGTI SKRVDETIVA GLRLADALVD THAPEPVDNV  
 FNRADVQAW EPGRIGELL EPINRVNVQV HADMLATTLY AGTQPPAVTD LVPVLRPHGF  
 TAALVIVDGL LLGAVDEGIL RRFSLHPEIE QLVLAFLFR RNLQEFSENN DPNVISNLNR  
 VESTLVSYVS DK

> RXA02766 (1-393, translated) 131 residues  
 MTTSENFYDS VGGEEFSLI VHRFYEQVPN DDILGPMYPP DDFEGAEQRL KMFLSQYWG  
 PKDYQEQRGH PRLMRHVNY PIGVTAAERW LQLMSNALDG VDLTAEQREA IWEHMRVRAAD  
 MLINSNPDPH A

> RXA02770 (1-1320, translated) 440 residues  
 GINRQVIYTI NEDATYSDGQ PVVCDDELLS ATAGQMPELF QSHVPLTSQI ERVDCVSGSK  
 VATVVFKEDE GERWRYLFEQ GDLLPAHAVA SKAGMTLEEL NQALKDKDPE ALTEPARVWS  
 EGFQLSQFDP ELQTAFGPYK VDSVGEFGEV KLVRNEFYSG DQAVEAEITM WPKGSDLSAI  
 ADNGNLQIAH VVAWESEPVW NRDDPLNPYD IKEEVGVLTE QLTLASAGVF YAAEARQAF  
 ACVDQEAFAV ASSSISGIDV PAVGVHVRH QNPVVHQIGD LPAQHMAVDI NAASALAGQS  
 IRIGYDGPDE RKAAMVEAIR QSCEPAGITV IDASQEAVAL NDLSRTEVSE WGYEQYFEGT  
 LDAVLRVDP HREYENANTI GTDAESTRT EEQLWAEVPS IPLAAQPRVF VIDRTVGNV  
 VNTDLAIGW NMDRWSRSEE

> RXA02774 (1-471, translated) 157 residues  
 PCPPTQKLLY AQMREIAAEL TACDATRGLH AEVAAEWLSD AITGEPTSIE IDPHRNLFYA  
 LNVEHPRLHE LFAGYATRLD ELDRAPQOCE SRQYFLDYVC ADNPFQSDKP EGIIVLLADH  
 VLAADPVTNK PALKSEAFPT VTDYCRTHSA KPTDILI

> RXA02775 (1-225, translated) 75 residues  
 MTTVQVSTRT VREHRTVPV DYAVGATISE IYAACAMAEK KANNLGLNTT KDDWARVTVT  
 DNAVVFIVEN VIGNT

> RXA02776 (1-342, translated) 114 residues  
 VLYPVEAGTV SLVDVKKAAAS RAFEQWEKHN ESAGDVGDDL SLQSIVDLIE RDTFPTDDEQ  
 ELNNVALLIG ELLVREAGGE WTSYISKND EDESLEIFGV FGTGGTEGLS VVGN

> RXA02777 (1-1107, translated) 369 residues  
 MNRPLQSQNF SITSEWANAT FNDIEDSLEG SFDIEPGQYI GRGEYFVATS GTGSKKFIKV  
 VLGDGIDSEL NRRIEGERLA SSLHLPSTDL ISPVVIQYVK ESSNFPDGFY IVSDFKDDTE  
 TLELSKASLP LTDLAKIGAF LFRLESVTVP PQNPARRAMD VLDGLSLLAN KGNITGAQL  
 TKGTIQALEI INQEATNIEN ALEKVTKVGK RKFFSHGDLK FSQFLINGET GKIFLCDWEE  
 CGSAHFANDL CFLAGDLFYS TIRELVDTNI KNIGSSIIQ EAYDNATLEA VSKVNAITG  
 YSSERGYSLT SDEKRIISIR IGLAGLFRLY TVSAKSNELE PRELALASIG MQITLGQAPN  
 LVFTDSKVV

> RXA02778 (1-225, translated) 75 residues  
 MQVIETLDPD QRAAVLAAAI PREAKILGRK VTLRPGWGNM RVHVVIIVIF IKFLQPDLRQ

ALLTTGDAVL VEDDT

> RXA02779 (1-279, translated) 93 residues  
MGEYFQVVQN IAMTLGAGES VDLVVREYIN DVEGNPTIYH GMPLRTEYRA FIDLDHCDPS  
AGEPEPRLLG VTPYWHPSVM EKALRLCFKR CWC

> RXA02780 (1-327, translated) 109 residues  
MSKFHTHRDD VISRITALLP QLRAQELQGQ WSVDIMKNGE DFYLIDMALM CESALSELLT  
VTDEYATVEP SVINDFANQL VIDYDEHDMG FDRDFPAGVY NTRQASAIN

> RXA02781 (1-1191, translated) 397 residues  
VVAALVFGFL LPTWERGLSD AALKFVFEGG PDAAREVLGT IAASTISVTG LIFSITLVVL  
QLVSSQFSPR MLNGFLRNRI VQATLAMFLG TFVFSLTIVR YVWSEDEDIT GFVPRASVSV  
AFLVLGCLG LFLAFIRLIT FSMRVANAIS EIGEETMALA ARIYPVQSDD AGPVQGPWS  
PRPGDPREEI RVGNHGSVLW IDYRKLVSWS TEHQAVITVD RPVGDFLVEG QPLL RVWWDG  
ELSDRDRRVL HSAIEVTER ELHQDVAFLG RQLVDIADRA LSPGINPAT AAQCVQEIHR  
IFRYLVTVIE PSPYIADDDG RVRVHQPQR IADMLYEVIR EIHLYGADSA MIPRLLRMTV  
EDLVTAAADH SLPAVERARG ILDDDETDED DSDTANV

> RXA02782 (1-672, translated) 224 residues  
VAPALNDLAT THPKLAEQIA DPQPSGVSA AIIPTISRGH HTQLTWQCSK NHDHQWVATV  
KDRVRGTDGP TCANTGTSRK EAELIEVIRA LFPNTDVQQG ALINGRTGNQ GASPSTDVLI  
PSKNLAIEFN GLYWHSELF I KDKHYHANKS ALAEQAGVQL IHVWEDDWNL RRDIVIRMA  
HKLHATHNLS AVLPTETDS RVATTAFVH SHCRWSLVHA LLHS

> RXA02783 (1-549, translated) 183 residues  
VVSQSRAAAF LNSNHIQGA SATKH FALCD NNDDIRALLS VRSPKNNARM YRKKGTWEIQ  
RYATLGNVPG GFTRLLKFAE HTLNEHSTVL KQWISFSAAD VSDGSLYRTA GFTAEQQLAP  
DYRYVGGATG WRRTPKESFQ RKRFRDDPAL LWNESWTEHE AALNNELYRI YDAGKTRWVK  
NVA

> RXA02784 (1-186, translated) 62 residues  
VAFAGEYYQE MAEYVCEARE EGITHEDTLH MLNDMMAMKR SGEVLNTLAD VLYANECPEY  
RI

> RXA02786 (1-807, translated) 269 residues  
ILRNLGQSLG SLHAATADRE EDFNILLNRM LAKYPATAEM QKNRDRLLPA AIEVGKKILV  
DAGVTVPEVV EEFARVARRR LISGRHRAFT PFDLSPDNII VAERTHFLDY EVAGFRDATF  
DVACVIAGFP QFVFSRPISD DEVDELIESW VQEVIRGIWPN VNNEERLQAR IVTALIGWAL  
SSVAFMKLGS ISGMLNLLHV TEDGNTTLDV SNLDELLIPR SAEDDELVQQ DLHDTFSALQ  
RFAARGLDSR FPEVARFADD VVRLFLKND

> RXA02789 (1-546, translated) 182 residues  
MKVSADTPGH DDPGPGRRLG LDVGTVRIGV AASDRDAKLA MPVETVPRET GFKGPDADI  
DRLVAIVEEY NAVEVIVGLP TDLQNGSAS VKHAKIEAFR VRRRLTNAGK NIPVRLGDER  
LTTVVATQAL RASGVSEKAG RKVIDQAAAV EILQTWLDAR TRALEPQSTD TQDFDEKGNF  
PG

> RXA02793 (1-702, translated) 234 residues  
MKSAAVPTLD ALGVLDREVVT KAGAFPAGYY DADLSERVTD IPTLSNKIDA SGHVLISKEV  
VVAANPDIVF GETDTINRAS MASSNIPVVE EPAFCGSIDG DVSFDDVWSQ ISTYGTIFDR  
STEADAYIAT LKERVSEVSS RVTDSGKTVA VLYPTIGGGV TYAYGRGSMA NPLVAEAGLT  
NVFADQSERV FEVTAEELIS ETPTHHRFTQ RRFPRHRRR GGQSPRVQRT HCSE

> RXA02796 (1-549, translated) 183 residues  
MRLFASITPP IEVTEHLINA LRPYKDDLRLW SDPDNWHITL AFYGELPDGA VEDLIEHLTS  
AARINEEFTI RIKGAGSFNR KNLWMGVGGD TKDLRRLMAD CLIDPEERRR QRAHLTVAKP  
TQRQRSRDWD PVIPDLVHAL SIYEGPEWV DEIELVSSEP GKGRSGGPLY TTVATIALSS  
ALV

> RXA02798 (1-1425, translated) 475 residues

MRSVLDYWIM TLAPSTNAVS QQTRRNPSQA PRLHRLHFF AGIICAPLIF IAALTGLVYA  
 FSPTIESISN QEMLTVSKSA SDTALPVREQ VSIAQELHPD LDLSGVRLGD DSSTTRVLFA  
 DETLAESTVR AVFVDPYTGE ITGDTTQYGS SAALPFRQWV SQGHRMLWLG EPGRIYSELA  
 ASWLGVLAVG GFALLWLRNK KPGRLRKMVR TGGRGRVKTY RRHAALGTVA GLGFVFLTFT  
 GLTWSTYAGS NITDLRTQLN WTQPSVNASL TAAPQVDMHD EHAGHHMHME SATSGSGSID  
 LVAATAISEL RTPLTITPPA QDGLAWTATE NRDAYRFTTD TIAVDGDTGM LTNRLNSTDW  
 PLAAQASAWL IQLHMGTLFG LPNQVVLGLL AASIIVMIGL GYWMLWQHRP REGWPSAPKR  
 AGFEKPTWGT IALGVVVIAY GLLAPLFAVS LLVFIGLSLG VRFISRMSSGR ADTSN

> RXA02799 (1-273, translated) 91 residues  
 VARNIEDIQR DIERTRRQLA STLDELADRS KPSNLVDDAK NQATAKLQES NVQKVLLGVA  
 AVVVGAVVFS VVRGRKKAND LKEIQRLLE R

> RXA02812 (1-567, translated) 189 residues  
 ASGTDASTIT LDQVALPVAT NSGASAAVAL ALAETPEAAA AALNRDADVT ATGAADSPAF  
 ATVEGAELPE GYTFEAVDSA EVPVWAVAIN AGNGISEDQA RAASDFSSFS FDTGNADNSA  
 LESVLTQASS ESAAETTEAQ PSETPVEPAA ASPSDTIINL DTSSNMDRVV DGSQETYHTV  
 TSRTLANLA

> RXA02815 (1-552, translated) 184 residues  
 WLRSTKEFED QPVIAPFEVI ATVASEFAGD DGNYSNEFPV EDLVGYVDI TEAGGYAVLD  
 LQPGANFLD QAKMYEELLK RPNVGLALDP EWKIGPDEQP MTRVGSADAA EINEVSQWLA  
 DLTAENDLPQ KAFVLHQFQL EMLTNRDQIN TDHLELAVVL HADGHGNAGD KYATWNMLRE  
 GLSP

> RXA02817 (1-399, translated) 133 residues  
 MILGVPIQYL LYSLWNWIVD TGFDVAIILV LAFLIPRIGR LAMRIIKRRV ESAADADTTK  
 NQLAFAGVGV YIAQIVAFFM LAVSAMQAFG FSLAGAAIPA TIASAAIGLG AQSIVADFLA  
 GFFILTEKQF GVG

> RXA02818 (1-606, translated) 202 residues  
 SYSRKFLTQV WIRDNVGDYK GLTDTAFRKK LQRDLAYLRR VGVPIEQFTV TSGIAEGQQA  
 YRLAQDSYKL PEVEFTPDEA AVLGMAGEMG HNQELGAFAR SGWTKLAAGG AQRDLSSTTA  
 LTNAGDLGSL SAKTLDAIHK ARQLGKQISF EYRRAPKDAP SLRHMDPWGL VPERDRIYLV  
 GFDLDRQEAR TFRITVRNI KL

> RXA02823 (1-270, translated) 90 residues  
 MTVRNPDRER IRHGKITTEA LRERPAPYPTW AMKLTMAITG LMFGGFVLVH MIGNLKIFMP  
 DYAADSAHPG EAQVDVYGEF LREIGSPILP

> RXA02824 (1-528, translated) 176 residues  
 FYETGEALDP TGDSLTISST TTAPSTSTTS TSASTSGGTA DCSSGALGVV TTGTNDGMLG  
 TIQEVNNTFA IWNNLIVNTE RMFCNIDTLK ARFDTDDSSD SATSATSGETT ASTGTAAATT  
 AGTTGTTGTA STASGTSCTS GTSGTAATVA GTTPTDNGVC TASGSLGVTQ ASAQWG

> RXA02825 (1-384, translated) 128 residues  
 NVSATEASGS ASVSLSQSGS QAFADFYTPG TQLDPISFSA TLGGDASCAT GSTSTTGAAA  
 TANTDNTEGV AGEESTTPAN QNSQFQIRQA AADSTGLDIT TTMLLILAAF VVAGGSMTRF  
 TVGNPTGK

> RXA02827 (1-423, translated) 141 residues  
 MYEQQKILNE VSEKRLQAIK DFTELGSQFK IAMRDLISRG AGNLLGAQQH GFIDAVGFDM  
 YSOMLSEAVX RKQGKNSQVE KXXVEIDXGV DAYLPETYVA DXRQKIEIYK RIRELDSQEM  
 LDELEDDLLD RFGEXPPEVA H

> RXA02838 (1-462, translated) 154 residues  
 TVPLGDGQGR YIAKIPSTAF VGVSENKFAN LALAEAIMGE VPARELVGRA QFEGVPPEFE  
 AMTDGLVLLV RRFDRAGDGV RVHMEDFAQV FGLYPARKYD GAASHDIAAV LGSVVSIAAG  
 LEFVRRLLALS VVMGNGDMHL KNWSLIYHGR GDVP

> RXA02840 (1-150, translated) 50 residues

MTVISGALNV LLPDATDWQV YEAGSVFNVP GHSEFHLQVA EPTSILCRYL

> RXA02841 (1-279, translated) 93 residues  
MFAAFKSNLP TIKKLVYEVI NGVDAALNEL ERHVTNESVR ARELPNVQYK ATAGRNFAS  
KLVQNLRRIN KAQNNPRGVP THATVILLKG DGS

> RXA02842 (1-342, translated) 114 residues  
DAGFVYFGEI DDAGHIFGLA GDEYRGGIRR VDTVHKKVLS EVSRRSDELG EDWLVVITTD  
HGHLDEGGHG GTDRERESW IITWSPHREL PQWPPEIAPX ELAELMLVER RTLR

> RXA02845 (1-615, translated) 205 residues  
EDHTSMLTHF SAAVGMHHRD PARFPGQGDG SYPDLFWLYK NALNLVISSV LFTREQMDNM  
LDQMDEHFTR AGIPRIAINI ERRDDALMNG SLERALELQE LIDASQHDDP FDDCPTCQIA  
GKAALAMAAD DYDETQNLVS QIISYSGIC VMEPETTLAA FMLRVLKSGD ADYARYLQDV  
SAKANPEFQS LDSVGRHLEF LGITG

> RXA02846 (1-573, translated) 191 residues  
VNGLSIINAV NNAWSVRKRT DWAKFRILAG ALVLGSPAV AVVYFLNGPW LLIFVGAMVL  
LALGVSLFPT EKFKALKQEA LPMVIFGMIG GFMSTVAGIA GPSLTVYARL SRWDYRDFVA  
TLHPVLLVAN TVSFLLKVIL IGGLDFGGAP AWLWIGAVAM IFVGAWLGEI VNAKVSTPMA  
KRIATLLAAA G

> RXA02847 (1-594, translated) 198 residues  
MAVQGGFYLF AILLSMAIL IRRYRPEYSA VRLATPVLAV LTSVSFFSAI LWHFIDQSVN  
YYSTFTRFWE LGLGALLVLH APRILISAKT KSILAAGVLF MVLSTGFFMD GAETFPGFPA  
LYPILGACLV ILGDGKISVF LSRKWMLWLG DIAYPLYLWH WPLLIIFTAL FNQEEPSIWL  
GIAVIMLSLG LAQLTNKY

> RXA02848 (1-399, translated) 133 residues  
MQIVLASQSP SRRRIILNSAG VEPLIHPADV DEDALLHSLN GSAPEEIVRQ LALAKAQVVA  
PSYPGDVVIG GDSMLLIDAT LQKPHRTREA TIERWKQQRG NKATLITGHA IIFGDEVIVE  
SSSTNIHFAE ASD

> RXA02849 (1-282, translated) 94 residues  
SPYPVMISTS ADASNVTVRI MGVDTTSVES INNGRWSTTQ PNTVRVSGSD CVPSTGAPGF  
TSDTRIISD LSGNEITREP VTTVYDPSPN VVCS

> RXA02856 (1-249, translated) 83 residues  
LPHAKELAHE LCLLPAPV ALPTDSGAQF DIHQALSASL ATYARNLTLL SHTAENLGNR  
ALTGLAEIED TDDQLAHAE RLT

> RXA02858 (1-1026, translated) 342 residues  
PEWKKFN SGD AARVVPDANA ELDIIGAPAL LADRPSTYANV KTLRSRIFAVM RSLGHVTAAS  
PVTVFFSSH VLSNVDRGSE HYS GPNGLGE WTSVGRAVAT NWNGVVDALD EAITVKEVNS  
LFTEDAATRI QEAQAAVQAA REAEEQIAKE EAEKVDPYDN SPWAAAGIDP IKVSIDGRTI  
YTLR TYLGGQ PVFLGKFGEI FTFNSQKSL RVLVEHDDHD LARASTWSDL MLGINAGETE  
LLVHSDNVYS FNLGVKDINT SVDAVD TQQM ARAYELMADT ADWADDDSMN SYFLANPRMQ  
DYISYMLGGS DTSGYVPHAP FNDHSESWRE LEEMLIKRF K F

> RXA02862 (1-636, translated) 212 residues  
MNTNLPNLYT AFDLDRSESS EALGVLSLAR DLRLEQM GIA QDDPRRAQTV QAFVAVLADPA  
KRATYDAQLE AGVPLTWAQI QHLGNFGTLP STPTAQPFPA PQPEPSPEPQ QQWNSGQNYA  
YGNPTMDYQT QOSYNPMQDQ TQASMYAQPF ANTPAPMYNS NQVFNRPTAG TRLWMAILDS  
IFAGIAGGIV SGIFGFGSEF LTSVIMILVL IV

> RXA02867 (1-606, translated) 202 residues  
MSATNPDALD VQHVYPIKTK KTPLAVIFNI ISGGLIGMAE LVPGISGGTV ALVLGIYERA  
LHNGDLLIDL IKVLIKDRSK VKEAAAKIDW WFLGAIGVGM VVMVFSMSSI LHTVVEDYPE  
ITRGLFLGMV AVSILVPLGM MDMRDAKKRL AIVIPLFIIIC AMLGFFGTST TSAPRTDPSL  
IFVFICAAIA VCAVLVPGVQ DH

> RXA02874 (1-480, translated) 160 residues  
 TELNRDTHHL WVVLTDSDD FDADSFTEV IRITGYSRHE VNNGLNMAAA MTNLPHLRAI  
 QERYYFLSIR YLASIMIAVA KADPTLWHEEL DLRITDALTP VTAGEVMIQS STLSKXHRXP  
 GSKNSTPNPH QSPHRKRTMF TSTPLMRRPM SASKSAAPTA

> RXA02876 (1-663, translated) 221 residues  
 MTSDKDTEQL EAAGTEILMP RRRPAQQRSR ERFNRILTAA RSVLVDLGFE SFTFDEVAKR  
 AEVPIGTLYQ FFANKYVLIC ELDRVDTAEA VAELKKFSDQ VPALQWPDIL DEFIEHLARL  
 WRDDPSRRAY WHAIQSTPAT RATAAATEKE MLEIIAEVMR PLARGAGYEE RMSLAGLLVH  
 TVSSLLNYAV RDVNSSEEDF DSIVEEIKRM LISYLSVAT G

> RXA02881 (1-666, translated) 222 residues  
 VKKKLMLPLI VAALGLSACS SEPAAAPLEA EPLHNLLIDG SESGLDNATE GNDTSLSGQP  
 INLTVVNGAL DIDGSCGKAL QAVEDVNLDS VASASRALAS GDKQVGIAMY STAEDNDISP  
 MDLYADIANA CEDPVVDSSD TTYTFGKLDD APDGAVGFTL DIEVTPDNQG STVMMIQELG  
 NHHIIVAGLE TTPEETATVF EAQRTKLEEG LQLKQNWQLG WV

> RXA02884 (1-462, translated) 154 residues  
 MLLTILWAIG ITAEGMTGAL AAGRQKMDLF GVSVIACVTA IGGGSIRDML LGHYPLVWVE  
 KPLYLLLIIG AAILTVSISF LMEHFRVLFL VLDVAVGLSAF AVIGTQIALE MGYGFIIAVV  
 ASVLTGVFGG VMRDLLCDRI PLVFQKELYA SIAF

> RXA02885 (1-1536, translated) 512 residues  
 RGKGFHFTST EFAGSYSLVT NGLNDVAGEY VGVMRGDVNN SAVLFDVDRW SGHVVCADSS  
 INTSPLLKRP RVVDMWGSKI SQAALLNNRR VVHLVLNGAK LDEMGPKELES MTAHVDMTSG  
 DLNMFELFGK QEDELSTLYST HMDKIVFMTE QALGDKTSEL ALLRGKLKEI ITAFYVDMKM  
 WALNAGENRD KLRLVGVPEH QIPLLSVFVS YLDQEYERQK YEGTKDPEMF RAISVLRITY  
 KDLLDTHGDL FNQHTADGID SVNSARRVIY DFSGVLRRA GVAQAQLVNV IGFAVETLGG  
 GDVVIHGDY GIVDQVQDY LANQFAYMAE RGRVAYLYS SMDAMLGTVG FNQFQRAAYT  
 ILGPMNVDSV DTYQSLINSQ IPMDLARLVT TQNSGASYLR RGSTNVVFET NLALGVNPYM  
 EQRRKIEAQR GQRRSKRDH YGGGTTMVG ADLDVVAIQA KAEHREERFD EKSARKMKEL  
 DDVEAKELAL KTGPKNLDDA LAQVEKKRLA KR

> RXA02888 (1-429, translated) 143 residues  
 MYSDKLILLF LSEQDSSYEC CVGLLDGSDG RDYIEKLLKG RKLKNHFLEW EDINKADVAR  
 EEIYKQQLVH LVFVTALSTP GEISFVFPGQ SLMSATLEED FAALVLEER TSFRPELSHL  
 WSLPVGWVAP GLEGFVERNS EAA

> RXA02892 (1-504, translated) 168 residues  
 MEGPEAFTVA AIAAAAGVSP RTFHNYPSPR EDALVQFVVI RVQELTDQLY EFPTSVPPRD  
 AIEQLVINQL RDGDDAMDSF SAMFRIGEIL ENLDPIKCVI DKERLIAPLL EFMVERDKDL  
 DKFDAATLIH LHAAAIATSL HTFYQASEPR DIEDGVALIR RACAWIKK

> RXA02898 (1-1626, translated) 542 residues  
 LVVDSSGRYN VTITGLTTTE TDSATALNLQ MSEAGYLERY TDGATVPSVM LSAADGTTTPQ  
 ELVDALAAEL GSNFDVETGE ALVEQATGMI TQALSFFVQYF LVAFGLIALL VGTFIIANTF  
 SMIVAQRMRE FALLRALGAA PGQITRSVVL EATIVGLFGS ALGVLGGMGL VAIISAVLNN  
 LGMPMGSSVG LTPSAVVATL VLGTVVTVIS AWAPARRAGE VKPVEAMRNM ETTTMRMGMG  
 RTITGGIVLA LGIIFAIAGA MMTDSSTATR SILVGIGALF VIVGTFLFSP ALSMPVVGGL  
 GKVIGAPFGS VGSLAATNSK RNPRTATTA FALTGLIALV TAIGMLSATM KDAVSDMMAE  
 QYTADYILQG PTNGSITMPK ESVNDVRDAE GVADVVLVSM NSASVNGQAS YSQLGQSVTF  
 VADGDLISKVI STESIDGSLD LSNPGVVTNQ TFADENGWAV GDTLQLESMS QTIGDIELIG  
 TFTGNDAGN MIISSESLAD TPAADTAVPQ MMLVVGEEGF DKEQLRTNLE DAVADYIVIS  
 VK

> RXA02899 (1-480, translated) 160 residues  
 MNSGSTMRRRI SLRNIGAHKV RLFLTVLAVV LGTSFVSGAM MFTNALSSTF DEAIASSFDG  
 VDVVVSPNGA SEVQGVVET VESLREDSRI NHLNINGSQT VVLADADSKA IQTTGGSSLS  
 IYYSADDAVA QAPELAEGEA PTGTEEVLAS KAGAEANGLE

> RXA02905 (1-474, translated) 158 residues

MDSVNVLLIG IIVAIAALLP RKGKYGIAT LLVAGDWLGV FLLSILVMLV FDGLEDLVQG  
FLDSIWFGVI LLVTGIVSFV ATLVSKTDST RKLDGFLAPV KTPSWKTVGA GLILGIVQSA  
TSVPFYAGLG YLSVGNFSPE IRYGGLVVYA TLALSLPI

>RXN00022 TRANSLATE of: rxn00022.seq check: 7277 from: 1 to: 1701  
MSAPTIYPGTKTSIDPITMDDARIIFFDIESLHNIFTVATYDSLHHVDVFYLLDHTTSP  
QITVLPMSMDYFDQTRSDAVMAAIEQNPAFAEIKGSPITTADVALHNLGDTNANRRWQS  
NVLLARLLGGISVRGEVPEHQSHNHLAKQFAEATLVTRDFDVNYDPTSAHPETAGFNSIN  
YDTTLLSLYFAMLTSTNIGSTPTYFPVITAQELRAHNDKLFSPFEIKNMPKYLWDRDSGAG  
LRAASGFRNAMLKSGRHIDIQRLNEKQFLVGLKRLGLLGHQILESDRLSGDDAHVDTNE  
DVLDLAIYNVSDVVGTRLLAEDPVYSGSFDLRAGLLSTYPETVFDHGTFRQPSTQMRKD  
RLTINTSSAQFAARILAPYRPLRDVDAIGDMPVVSYLYPDAAVAEATGQKQVNVLDSEK  
KFFYDNITDPEARAAAFDEVFAFYADIEGRNFNSHNEAIDTQINQLRAYLNQVVAFDAAGY  
ALYDVRTRFEQIFPKDRSYINDATDMTPRAVSSFDDLVALCDDIRGVLDRGLEISSPNHH  
EMVDAMRKQLHYIQAFYRAWDPSTPLQ

>RXN00027 TRANSLATE of: rxn00027.seq check: 3923 from: 1 to: 366  
VDERSRFARSVFPDGEEDPRFTLANERTFLAWTRTSLAFLAGGIAFEAFQISGLSDTVR  
TTIAVFIIAVGMIIAAGAAVRWMNVERAMRKQKPLPVPAIIPFLSIAALVASA AVLVLII  
VQ

>RXN00028 TRANSLATE of: rxn00028.seq check: 5847 from: 1 to: 1947  
MTLTASSLEAGKMSFSGGYIVGETMIFLVDPDEVEIRRSNLSHLVLRNGSDILRRNEHHC  
WVFENFNKPIDPPVRLGPRDIICPSALAWVLQQHSISRSLSHHLHADKITAGEIAGRPTW  
ILREEPTSGGQDPSRLVSLIDQEHGVILAVETGQERLEATEISFPDTLPNPSWDGAWEP  
FHYPDSTPHTAPDVAEIPGYIQSLPPQSEDPRRLRVFVNEIALEGDFPDYRQGSVRRLTL  
GISSSPVPLEGMTTRRRGRVRNLGEEASPGDDGMPQWPILLTGDGWTALAYTPIPKRGDA  
EIQGWFFYYSAYGIVDVPTDLRVERIFAGIGTSGTNERLWQEI DNTSSAYHSEDWWIRDV  
LDVTLDGAVPPPLRRDVFVAVDPIVAGDKLWLCVHFPVARCWETTTGRYLGQTLVPAPL  
RDRSYVLELHSDQQLGAVAASGKSGWILTPGQAVATKAPDWTPPTRATDLPQVPSPEIV  
AVRGQGLFELQVETSRRALTGRVNATGGVDIGELPPNGYTISSVVQIGDEYIVGRWVEEY  
RLNSKLEVISTKELDISASGWKSKGTVAYLSEDTHTICFFDQVSGAELPSLGIAEGHQGEV  
MSATSSSESIVLIYRRNPNSMSIVPTS VATYDNGTWTMTPLQEAPAELS

>RXN00033 TRANSLATE of: rxn00033.seq check: 3319 from: 1 to: 1335  
MSVQSSGLLERLGIPRPLIFGFIGLTIFMIGDGVETNILEPFLSSEHGFSVSLAGTLTV  
YGVAVAI AFAAALSDWGRKVMILGASIWIVFELIFLTVALTTDHTWLIFLAYGLRG  
FGYPFFAYGFLVWITATASPKQLGTGVGWFFYVAFSAGLPTLGALVATISMQYVNLTFYET  
LWVSLVLVVIGSLIALLGVKERRGRHPLVANPDDVKQTLGQGFKLLRNDRRARFVYI RT  
INSIPTYAMAVFFPSFFTDDLKWLQSWFLILTTVIYAVNLFPNPFSGSFGDRHGWA RTVF  
WGGSIGGAVTLALVYFIPMFGVQAGMSNGVVFGITIAAGALFGVSLAGFVPLSAIAVSLD  
PKHPGAAMATYNLGVGGAVAVGPLLVAVFHPLIGPTGLILVMIALYLLSGWMTLQLRGTO  
PGFDGVPALAEADAHIEDLADVNANA

>RXN00056 TRANSLATE of: rxn00056.seq check: 471 from: 1 to: 750  
LLNRVSRIAGASAITLCIGLTTILSPTSTAQSLEQITPLPESAI DLNAEIHVNTSDISAE  
QILGAQDEITMYDSHDPYEFDTLT DIEQRSIIAALKRDPSSLQQRQETRLAAQSDPYK  
IYISGLEMLSCINLVDVSCGIANQAATKANNEAVARYPGDSL RNGKGDAFRHCSWNALM  
TIRIGSNGAERIATNHETIGDGPADENAMDLFNNAQGRQIGAGFINSKDETSALAI CALW  
TNLGRKTLK

>RXN00067 TRANSLATE of: rxn00067.seq check: 5053 from: 1 to: 486  
MVDAQRPKAGIFGSHTTEETWVWLGNELFDESGEVIADVRSDVLYVDRERLLIESTPGTMR  
FRCRATLSGGEVYTMQNSFTVGDLTAVCGRRYSLKRVSPWRKERLITNNGVEVARLRP  
MTSGKVEFIVGTAGSEALPFVDAVFLSWACVLVDSAVRRPKI

>RXN00077 TRANSLATE of: rxn00077.seq check: 3953 from: 1 to: 1362  
MNDENIQSSNYQFPFSFDDWKQIEVSLLDVIESSRHFSDLKDSTDRSALDAALERAKRAA  
AVDTNAIEGIFQTDRTGFTHTVATQVGAWEQQMAMKGKHVKPAFDDTLEGFEYVLDVAVTGR  
TPISQQWIRNLHAVILRSQESHEVFTAVGVQNQALQKGEYKTQPNSPQRS DGSVHAYAPV

EDTPAEMARFISELESKEFLAAEKVIAAYAHYAFVCIHPFADGNRVARALASVFLYKD  
PGVPLVIYQDQRRDIHALEAADKNNPLLLIRFFAERVTDITINSIIVDLTTPHAGKSGSA  
KLSDALRPTRVLPHELHDAHRLQESLFTIERSRLDEEGKRNGLFLLQRIFIGSPFNLP  
GYNAFPDSYCLTLAFNSNSPKQIFHPLSIVIAARDGKRASSDLVAATSIGYNFAYGREV  
EPVVTFSEFRERVKIYADGIVDHFLTELAKKFQQN

>RXN00080 TRANSLATE of: rxn00080.seq check: 4040 from: 1 to: 1530  
MDILSLLMEGFAGALTPMNLLWVIVGCLLGTAVGMPGLGSSMAVALLLPMTFALDPTAA  
FIMFSGVYFGGLFGDSTMAILMNTPGQASAIASTFEGHRMALNGRAPQALATAAIGAFIG  
GIVSSFIVVFLAPTLAELSTAFGPAEYFALALFAFVATSSVVSDFKGLASLIFGLGIA  
TIGIDSVTGIERFTLGAPQLFDGISLVTVTVAIALGEVFYIAARARRDKANLETRSAGR  
PWLTTGTEFKEAAPAWARGTIIGLPFGVIPVGGSEVPTFLAYSTERALDKRRKDPQFGDKG  
AIRGLAAPEAAGNATTGMAMGALLALGLPVSATAAIMLAAFRQYGIQPGPLLFDNRPELV  
WALLASFFIAMIVLLFINLPFAQLWAKLLIPNHYLYSGIALFCGLGIYATSGAVFDLLM  
LLGIGVVALIMRRYGYPLAPLMIGMVLGPLAETSRLDALLSSVGDFSILVSSPITWSLYA  
VLAIFIAVSVITAIRGRKHLTSQLETIDA

>RXN00087 TRANSLATE of: rxn00087.seq check: 6949 from: 1 to: 528  
MIGGIIGLILSVIIMAEKLAILEDPGHITSCDFNAVLACGDVMRSGQANAFGIPNPLIGI  
AGFAAVAIIGAGILAGGGFRGWFWGAQAGLT FAMMFCHWLAYQMSVIRALCPYCMGVW  
TVSIIMFVLVTAWNVTFSGSDSTFVNALYKYKWVIAIVWLLLIAAAVWSFRYMF

>RXN00096 TRANSLATE of: rxn00096.seq check: 1688 from: 1 to: 303  
MTNAGDNFEIRMPSTDDPLSDAEIQKYREEINRLDREILDVAKRRTKISQTIGKTRMSS  
GGTRLVHTREVAIINQFREEIGEGLPALAGILLRMGRGKLG

>RXN00097 TRANSLATE of: rxn00097.seq check: 3726 from: 1 to: 1176  
MEVPSLFTNFFAVNNPDSPPARQKTKLRELEHFRWQEHLPDGDHSTAISSLAIVTGLT  
KAQVSRISIAFATLADLPKALQKLYHLDSLRLITISNELAGINPDNLGADAILTEY  
LTATSPNQILPSPASIGRRIKEIRDLLDDARATGSRGTQDDSSFGVTFSFGTAEIGASV  
DAVDGHIINDAVTQHAKKNDLTYGEAFSDILRNNIQVKVVLNLYTAKDLANAPVWASGIG  
WLDAKTGTWFSEKANKEQMDAAAKISTDKHDPFALRDALIGRDGTCRFPGCSVPALKT  
QADHRIPIYEEGGETCLGGIGCLCQHNNMKTGGRVITYLLDPFSGIIVWLMGDGTWAVSEP  
NGPLNPKNARWAQTVQHRARHHRWVKEDAK

>RXN00114 TRANSLATE of: rxn00114.seq check: 4118 from: 1 to: 489  
MKLLKFAAAGTFALALAGCTQTESLVATIESATSAAQASGNDVEGDQTSFELSVEGECFN  
DTYEEIESEVPIDCAEPHDNEIYYLYDIEGDDFTDITTTGYEGCLPTFEGFVGAPYET  
SIYEVYPMPTPTFGSWTNGDREVVCVYLATGEQMTGTAAGTAQ

>RXN00120 TRANSLATE of: rxn00120.seq check: 1348 from: 1 to: 840  
MLIGMSNQTVNQAVSSGVKASPHRFNRFEIKYLITEQDVPALREQLATRMSTDPLSPPGG  
YRVESLYFDSADLRCTEIEGLKFRRLRIRTYGDGVLTPESTVSVEIKQVRNVKTQKR  
RLDLPFIYALALGDSTGAAGVEQVDVEKLEISPENQHALLIHEMASFAKNYRLRPIATTK  
YHREAFVGADAEESRVTIDHGVSGRDRDFFLLGQDLEDRTVAQGLAVVEIKCDERVPFW  
LTDMTAQLEMSVIRMSKYCETIEAFHNRPASAFGAVDPIF

>RXN00128 TRANSLATE of: rxn00128.seq check: 1749 from: 1 to: 1704  
VSKISTKLKALTAVLSVTTLVAGCSTLPQNTDPQVLRSGSQSTQEIAGPTPNQDPDLL  
IRGFFSAGAYPTQQYEAAYLTEGTRSTWNPAASTRILDRIDLNTLPGSTNAERTIAIR  
GTQVGTLLSGGVYQPENAEFEAEITMRREDGEWRIDALPDGILLERNDLRNHYTPHDVYF  
FDPGQVVLVGGRRWLFNSESQSMSTVLMALLVNGPSPAISPGVVNQLSTDASFVGFNDGEY  
QFTGLGNLDDDLARLFAAQAVWTLAHADVAGPYTLVADGAPLLSEFPPLTDDLAENPE  
AYTNTVSTLTFALQDGSLSRVSSGNVSPLOGIWSGGDIDSAAISSSANVVAAVRHENNEAV  
LTVGSMGVTSALRSETITRPTFEYASSGLWAVVDGETPVRVARSAATGELVQTEAEIV  
LPRDVTGPISFQLSRTGVRAAMIEGKVVYGVVTRPGPGERRVTNITEVAPSLGEAALS  
INWRPDGILLVGTSIPETPLWRVEQDGSAAISSMPSGNLSAPVVAVASSATTVYVTD SHAM  
LQLPTADNDIWRVPGLLGTRAAPVVAY

>RXN00154 TRANSLATE of: rxn00154.seq check: 3981 from: 1 to: 843  
MSFSDPYAGNIFGGHSRNKQPEYDPVPAKPLVVEVRGDFGVGAVTGFERTYDGFVRLE



DRRGRDALYKLRKGAFMIDGQIVNLTRFVEKQAPRKSNSGSRVENAQAKVAAPSRIWVE  
GIHDAAIIVEKVVGHDLRVEGVVVEYLEGLDNLEERLAEFQPGPGRIGVLADHLVEGSKE  
TRMTKSLPADVAVTGHPYIDIWAAVKPERLGLKAWPEVPYGEDWKTGICKRVGWSDPKEG  
WHRVYNVANSFRDLDTLIGAVERLVDFVTNLDLSKEDVLA

>RXN00162 TRANSLATE of: rxn00162.seq check: 4822 from: 1 to: 354  
VSTTTPIHPPERKKRVRQALTMFSIAAWVTGVFLLALVAEMIMKYIIGMDLPEWARFVPIA  
HGWWYIVFLMTTLNLGLKARWNPTRWVTTAIGVVPLLSFFVEHNRRKEVTQTFQLNS

>RXN00167 TRANSLATE of: rxn00167.seq check: 5803 from: 1 to: 498  
MYLLNPPVTEPEILTVNEIPTVVAVFDNHPMNDMPAAFDQTYQVLFPTLGAKGIAPIGPG  
FALYTSEPTDTSFVEVGIPVSQPLEGDVSAASGIVLKNVVPAGKIARISHIGSFDSLQ  
AWGSFVEALESAGHEIDMPCWEVYVTEPSPDMDPATLQTDLYVLLK

>RXN00171 TRANSLATE of: rxn00171.seq check: 2615 from: 1 to: 258  
KDQQKQIHNLAEEVKRLRERDDARDQQLGVLNEAMFSLGDLDRFRESGDEASFNAALN  
YQAVVAPEMFKTVYGVDPSTGEPIPT

>RXN00194 TRANSLATE of: rxn00194.seq check: 2468 from: 1 to: 441  
VAGSSHTIEPEIYRGVSTLDEPSAAWGWHLKRNTIQLAGWISVLFMLGYNFGNHKGHVE  
TIWLLVITALLVIGLLIHLFEPKLFQVTRTITSRNKPVGHVEPDWTDQATLTGTWGNLTD  
SQLRSVNIEPSRVAHLRAADSAKELDN

>RXN00197 TRANSLATE of: rxn00197.seq check: 7429 from: 1 to: 1212  
VAAYLLGVVLFGLIAVTIALHEWGHFITARIFGMKVRFFIFGFGPTVFAKRRGETVYGL  
KAIPVGGFCDIAGMTAQDELDPEDLPRAMYLPWWQRIIVLSGGVIMNLIVGFLVLYGVA  
VSSGIPNPDVDTTATVDTVQCVPETQISATELSSCVSGSPAGDAGIEHGDKILAVNGQEM  
ASFTAIRDAILELPGETATLTIEREGTLFDVDLQVASVTRLASDGSEITVGAVGMSSLP  
TDVYKKGPIEGVGATARFTGDMISATWDGLKAFPAKIPGVVASIFGAERDVESPMVVG  
AVRIGGEFVERSMWDMFMMMLASLNFLLFNLVPLPPLDGGHIAVVIYEKIRDFFRKL  
GKPAGGPADYTKLMPVTVAVAALLMTVGGLVIVADVNPRLFG

>RXN00216 TRANSLATE of: rxn00216.seq check: 8301 from: 1 to: 990  
LGAYGLGELPGKSAAEAADIQGETGDLHLPQLPARGLGADLIGRTVGLLDMINVDRGA  
RSWVMSTRPSRLTHLTGDFLDMDLDACEETWGTGVDKLKIQVAGPWTLGARIELANGHRV  
LSDRGAMRDLTQALIAGIDAHARKVAGRFRAEVQVQIDPELKLSLIDGSLPGTSTFDIIP  
AVNVADASERLQQVFSSIEGPTYLNLTGQIPTWDVARGAGADTVQISMDQVRGNEHLDGF  
GETITSGIRLGLGITTKDQVVDDELLERPRQKAVEVARFFDRLGVRNYLVDAVDIHPGED  
LVQGTITEAAQAYRMARVMSEMLSKDSCDL

>RXN00222 TRANSLATE of: rxn00222.seq check: 4411 from: 1 to: 1146  
MTPTADIWFKDTLAAHFTRDGDQTTFSYADYAGPPIATSLPINSEPVITRSGAIPFFFA  
GLLPEGRRLSSLRRNIKASADDELSLLAVGADPVGAVAIFFPHGENTQPAPPTVDFDEL  
DFSAAALTESGIADPVALAGVQDKASARTIAPVVASDAILKLSPPPEYPYLVENEAACYQLL  
TKNKLRIELSKVEVLHDKHGRSGLLVHRFRDTPKGKIPVEDAGQVLGIWPAKYLVSIED  
IAQALTQVCASPILAMRNLAFAQIAVWLSGNGDLHAKNISIINKGRGFEISPIYDIPATA  
VYGDTTMALEIQGSKKDLQKFLKFKTSIGLPEKTAMSVANAALLATENAAETILASGN  
FDTRMNRDLARVLKHRRSAWGA

>RXN00232 TRANSLATE of: rxn00232.seq check: 1106 from: 1 to: 510  
MNDRAHQIRIGDIERSQALDRLGSYFADGYLDIDEFDTRTGAAAIARTAGEIDVLFDTLPE  
QQASTAVTPVQDDTEKELDLVLQRGKKLKQIDSAIWAVVMVSFFLGLFVFNVPYFWVFI  
LGGAASAGARFLLKVDDADEKLFEELHSKEQSEREARLRIAAQRRRELEQ

>RXN00236 TRANSLATE of: rxn00236.seq check: 116 from: 1 to: 726  
MVISFVGWALSFM DGTAPIRQLQQIPEDVPPARGVEVPQIDTEADGRTSNHLRFWAEP  
QDTGVSAQAIAAYGNAELIASTAWPGCNLGNWNTLAGIGQVETRHTYNGKMFSGSSLDEN  
GVATPPIIGVPLDGSPGFAEIPD TDGGELDGDTEYDRAVGPMQFIPETWRLMGLDANGDG  
VADPNQIDDAALSAANLLCSNDRDLSTPEGWTA AVHSYNMSNQYLM DVRDAAASYALRQP  
AI

>RXN00242 TRANSLATE of: rxn00242.seq check: 7148 from: 1 to: 1278  
VNEWRTVSLVDSTALTVIISVAVFTSAVALLGVVKKRSRWRVLGALISSAVLTSGAWVVI  
EKLWKFPDPNPWTIYLSAGLAVFPLLSILFRTGRTRILMATLTVIALVNTAAVINVIYQ  
PYPTLGSEFNPVPTAVSMSYADFESQTTAPTMDREVVALVQVPLAGTTDDSTSGFDARDA  
YAYIPPAYWDNPSLQLPVLVLMPGNPGQPDQWFSSGNADQADNFQATHDGISPIVISVD  
GTGSFSGNPACVDSDAQSVMTYLSHDVPMLIKQKFRVNQDQRTWTIGGLSYGGTCALQIM  
TNHPEAYGSFLDFSGQEEPTLGTQQTVTDQLFGGDEDAFKAVNPEDLLNQAISSGAHTYS  
GISGRFIAGSNDKSAVSALSHLDNLSNQAGMSTTFDTVAGGHSFQVVRVALANTFDWVAK  
RGGQLQV

>RXN00247 TRANSLATE of: rxn00247.seq check: 2491 from: 1 to: 927  
MQTLIFIAIAGVAAQLVDGGLGMFGVSTTILIMLAGLGAQASAVVHTAEVGTTLVSG  
LSHWKFGNVDDWKVVVRLGIPGAIGAFAGATFLSNISTEAAAPITSLILALIGMNLVWRFS  
KGRIRRDYSDRPHSRGFLGGLGIVGGFVDASGGGGWGPVTTSTLLSLGRTEPRKVVGTVN  
TAEFLVSLAATLGFVVGLWDDL VANLSAVLALLIGGAIAAPIGAWMISRNVATVLGGFVG  
TLIVTLNLPKVLNVVGLDFIPTGLIQVTVLLIGLPLTYLGFRRYRKNLLNETISSEVSE  
PKGQKIKST

>RXN00256 TRANSLATE of: rxn00256.seq check: 519 from: 1 to: 771  
MFMSLKTRRIFGALAVSLISFSIAIATPAASAQELVVSTSAVNEFGVVTSDITAEQILQA  
QDLIAEMKQSEDIYEYFGALSDEQRSIIAAVKENPYLIENESPRMRVQSETPDEETPK  
KKPSKTYKLYMSILEMMSCINLVDVPSCAQALKAANIAEREAARYPDSVTNGKGDALRH  
CAWSALMTIRIGKDAERIGNAHETVVRGEPEEREMDLINNALGRDIGERFIINGDETGA  
LSTCVSMANIGLLHTLL

>RXN00264 TRANSLATE of: rxn00264.seq check: 1681 from: 1 to: 378  
LLVDSGDVQLEGVTVEPTQLAYTGINETQLRIRNIGTTPARTVLLGGEPFTEDIVMWWNF  
IGRSHEEIAEYRKQWQAEADRFGITHGYISHHKDGLTRLPAPELPNAAIKARKNPAPTAR  
PETRID

>RXN00267 TRANSLATE of: rxn00267.seq check: 9930 from: 1 to: 318  
MRNSKSGLAFSAAALFCVVAVITRIASSPSFIAIVAIIVAAIALFVGLNSRVGTKLVDQP  
VVFTQEIQIDQLKELKSRDQEAAAIRQAQLWSRGSSSEAVAEAVRKL

>RXN00271 TRANSLATE of: rxn00271.seq check: 7582 from: 1 to: 990  
MFSSRSKVLASIFTVGALALASCSSDSSDSTSTDAAGGDSYRVGINQLVQHPALDAATT  
GFKEAFEEAGVDVTFDEQNANGEQGTALTISQQFASDNLDLVLAVATPAAQATAQNITDI  
PVLFTAVTDAVSAELVDSNEAPGGNVTGTSDIAPIEQQLELLQQLVPDAKSIGIVYASGE  
VNSQVQVDEVTKAAEPLGLSVNTQTVTTVNEIQQAVEALGDVDVIYVPTDNMVVSGISSL  
VQVAEQKQIPVIGAESGTVEGGALATLGIDYTELGRTGEMALRILQDGEDPATMPVETA  
TEFTYVINEDAAERQGVETPQEILDKAERV

>RXN00272 TRANSLATE of: rxn00272.seq check: 8098 from: 1 to: 372  
MPEPETSTMGSIQKSGEWLVPAISAYKLNAGDLFLDIRHATAAAPVITFDVNMTMGSMTL  
IVPPGVYVEVQMASKNWSDFKVQTTNPLPGAPRVFITGVARASGLKVFTKHPHEPFGFWQ  
KMFE

>RXN00283 TRANSLATE of: rxn00283.seq check: 5995 from: 1 to: 1032  
VASATASDSSLSTCCSSSGRSASPSSPGLAPSWLTGELFAQFTSTDGNAIIAASGGGA  
IGPQALFDASVRTFLISPALLLVAVVAVFFAYRRRDPEPIIPLALIGSVVFFQIITYSLG  
STFGLLRFFLTALPLTIILLFQIIPRHRFPRLPGACYRDRVTGKYVPKTTITGVLVLAI  
FGGTGITLYGMSSANWAPQEYAIQELVFNMGSPSQDAVHTLNTFSTEMDVADFVDSLNLG  
DGEVLLSTTYGFAVLTAANNQKQFIIPSEDFITTLNEPAEHGVKYILALPREGRGATDP  
INLRYPDMYETGSHIATMEIEFINQGGQPNWRLRVLTTPEQS

>RXN00334 TRANSLATE of: rxn00334.seq check: 4035 from: 1 to: 336  
MAKLDDNVQIETVNVSFEEAGGRTNWHTHPVGQNIIVLSGLGIYEAEGEPARLLEPGDVVF  
AAAGVRHWHGAVSGAPMFHVVNKLGIDGETVDWEEPVDDEHYRSVSaelQR

>RXN00338 TRANSLATE of: rxn00338.seq check: 9343 from: 1 to: 1140  
VSDVTVGDIRRILDEAYPPALAESWDKVLICGDPTESVKRVGLALDCTQAVADKAVDMG

LDMLIIHHPLLLRGVTSVAADEPKGKVIHTLIRGGVALFSAHTNADSARPGVNDKLAELV  
GITAGRPIATRLGGMMDKGVHVLPKDAAYLKMLFDAGAGAIGDYRECAFEIEGTGQFR  
PVEGANPAEGDVDFKLSLELRIEFVAPRNLRLRSLVREAHYPYEEPAFDIVEMHSAES  
LENATGLGRVGEPEPMLRADFVQQVANNLPVTEWGVTRATGDPEQMVSRAVSSGSGDSF  
LNDVIKLGVDVYVTSDLRHHVPDEYLREGGPAVIDTAHWASEFPWTSQAQEILQDKAPQV  
EVDVISIRTDPTWMSARAVN

>RXN00342 TRANSLATE of: rxn00342.seq check: 3222 from: 1 to: 429  
VADAPGAVKQGAQDYAQLLGIQSGHIVQEIGWDESDTLISESIEDAIGEELLDEETDEL  
CDVVLWWREDDGDLVDGLVDSIRSLAENGRIWVLTGIGKEGALAPGVISESAQLAGLV  
QTKAERLGNWQGSCLVQRGNKKP

>RXN00344 TRANSLATE of: rxn00344.seq check: 1354 from: 1 to: 879  
VDLSTWLSDTQYLISVDFVQHALIASALLGLLSGVIAPLIVVRQQSFVHGTAEALMGA  
AAALLFGLNVGGGAVIGSVVAAILLALLGMKQQDSAVGAVMSFGLGLSVLFIHLYPGRSS  
TAFSLTGTQIVGVSSSSWLIVAVTVIVVSAVVIFWRPLLFAADPIMAQASGVNVRFA  
VAFVAVLVGLTTSQSVQIVGALLVMALLITPGAAAVAVTANPVKAVVLAVIFAESAVGGL  
LLSLAPGLPVSVFVTTISFVIYLVCRLLIGWLGRGAQRDEDAYRRRQHDHHPH

>RXN00353 TRANSLATE of: rxn00353.seq check: 5475 from: 1 to: 693  
VGRSFTNRTFDPLPFMVVYPDGVDPQHWNDARLGLDENTRHLGIDDVGFVKLATHLGNTY  
GIKRIFIVGYSNGGMVLRMLHEVPKMLSGAATIASNMPVAENTLPQVKTFKTHPVYLA  
MAGTADTFSPYEGGDAGIGREHRRGVGMSAFDSAAYIAARNGLTEHRHDVIDDVVSIDTW  
DGENPVEFWTLNGIGHLVPSGKTYPEFLGPSTTSVIAAEEIGKFFDGVRRR

>RXN00354 TRANSLATE of: rxn00354.seq check: 80 from: 1 to: 813  
MGKLLFVDIGGTLDDYSNEVPRSAVDAIRKARAKGHRVYLSSGRSSAEVTSQWLDIGVDG  
LIGANGGYVESAEVSFHRRLSGEETHRIVEWLYNRGLEFYLESNNGLYASRGFREASKP  
VLSRLSEKTDVTVDSMYPDMFWGASLDRDDVNKISYIFNSQEDLDAAREAAPNLEHTTWG  
GQTGALFGTIGVSVNKKIGVDRLLKYLNADRANTIAFGDSDEDLSLFEASAYGVAMGEAT  
ESLKAADLVTDVAVGQDGLRNAFLKLELIDA

>RXN00362 TRANSLATE of: rxn00362.seq check: 1707 from: 1 to: 1347  
MGIIALLVFIAIAVILNVFLKRDISEALLVGLVGTALVGGVNAPTLLIDAVVDAAQSEVT  
FAGMAFVFMGIVVQSTGLIDRLIAILNSIFGRRLRGAGYVSTLGSALIGLIAGSTAGNSA  
TVGSVTIPWMKKTGWTAERSATLVAGNSGLGVALPPNSTMFIILALPAAAASSASQVYIA  
LACGGAYAVLYRLAVVFYWRKDKIPATPDDQVRVSFGEAMKTGWRSPILIFLGILIPVILT  
IGPLSEWLKTHGVGESGVKMSIIVWVPILITAIALIEGRKRIANNMAHFRVQISKDLPO  
FATVGISLFSALAAANIMEELGVGPQLSNWLDSDMLPKSVMVIVCIMCIVVATPLSSTA  
TAAAGAPAVAAALAVGIDPTVAIVVILLCTSTEGASPPVGAPIYLSAAIADANPTKMFV  
PLITYFVVPMLLAWLVGMGFLPVIVPTG

>RXN00373 TRANSLATE of: rxn00373.seq check: 1756 from: 1 to: 339  
MDIQQLDAETTAWKDSLLRAAQEAGFHFEPPKLFEDFETMVEQYKQAAASDPDIDVTDIQ  
QMWGIVVGEYLREKMGMEWVITDDYGTDLAILATAPNGDHVYSCPIIVVGKR

>RXN00390 TRANSLATE of: rxn00390.seq check: 7582 from: 1 to: 405  
MSTTREIAFLIARILLGVILIAHGWDKFAITGLEGTGFFDSLGI PAAGIAAIAAAVVEL  
LGGIILILGVFTRIVAAFAIDMLFAALFAHVSSGIFVTNNGWELTGAIGAGALLIIVG  
ASAWSIDGVLAKRKA

>RXN00399 TRANSLATE of: rxn00399.seq check: 2271 from: 1 to: 315  
MSHNDSPNFARRALNWLROGYPTGVPRHDTFALFYVLRELTEEDLNELAEELLIAEGENN  
GLHDNPITREKIGKLITHVHSQPPEDEDIDRIQKKLQAEFGPTRN

>RXN00416 TRANSLATE of: rxn00416.seq check: 8529 from: 1 to: 1650  
LASYLSPALVAVLAIPLSATRLYLDGISVDQGFRTQFLTRMADDIGLSDMNYIDMPTF  
YPAGWFWLGGRLANLLGLPGWEAFQPAIVSMVAASVLPVWQRITGSLPVATGIALVT  
TCIILAMNSEEPYAAIVAMGIPAMLVLASRIAKGDKFALAGGIIYLGVSATFYTLFTGAI  
ALSAAVAVCIVVAAIVQRSIKPLWLAVLGGGSIVIALISWGPYLLASINGAERSGDSATH  
YLPLEGTQFPVPFLASSVVGLLCLVGLIYLVVRFHNNNEVRAMWVGIAVIFYAWMGMSMAIT

LLGNTLLGFRDLTVLVLI FATAGVLGIADFR LASVYQLYPTQITERTATHLTNLIVVLV  
 LGGLYYAQDL POKNARAI DLAYTD TDGYGERADLYPAGAARYYKDINDHLLDQGFEPSET  
 VVLTDELD FMSYYPYRGYQAF TSHYANPLGEFGNRNAFIEDLAIRSWDELADPQQFSDAL  
 NTSPWTIPEVFIFRGSIDDPDAGWKYDVAEDLYPNNPNVRFRGVYFNPESFDQMWTQKV  
 GPFVVVTHNE

>RXN00422 TRANSLATE of: rxn00422.seq check: 3762 from: 1 to: 894  
 MPTNYARDNVISLASAREQSRSGKPEPKPELT LIVRATNVQADGEVHRQIGLNSAMSDEL  
 HNVLNIVFGVGGEQSPWR FEDQFHQPSAPDTNLGELLPEPGDFLFYFWGLWQFNLCVEM  
 YPRDNGTPRALCIGSGGLGDDFDQATINAELTGTD TIRDVLSGVRPEVIDLVDRGTGVFD  
 FIPLLQALDLKREPLIDATRYHTCR TLPVENS AEASDAFWSCVLALSCLGNDEL FIEVIE  
 STMSTLGVVADGSP LRAPEITSACEASLKILAE LGGYGP ERLAPVDRDLIYRELLCF

>RXN00447 TRANSLATE of: rxn00447.seq check: 3535 from: 1 to: 420  
 MLGSLWRFAVRTAAGAVALWVVIKLIDGISLSFPTTPLYQDGHNDLLTFLAVAAIIVVL  
 NATVKPVLKLLGLPLTIITLGLFSLVINAVIMLLAEYVSDLIGFGLRIETFGAAFWGAIV  
 LALVNWVLGPITGLLGAKKD

>RXN00455 TRANSLATE of: rxn00455.seq check: 9756 from: 1 to: 750  
 MVVDVQNSHTPETQPQPGQGA AKKTPVASGNSTFIHIQPSLYPILLALFVAVFLISNIT  
 ATKGV EIGPLVTDGAFFLPISYVLGDVLAECYGFKSTRRAILTGFGITMLAALSFYISI  
 WLP GASFWEGQEAFEATLGLVPQIIVASLAGYIVGQLLNAKVLVAIKKRTGEKSLWARLI  
 GSTVVG EFDVTLFCAIAAPVIGIATAPDFIN YVVVGVWKTLL E VILMPITYAVIRWVK  
 RREGYETFDA

>RXN00473 TRANSLATE of: rxn00473.seq check: 5144 from: 1 to: 789  
 MSGTGVRKLWGDGTPVSLPDL SGLSRAERIDALSRMSTMGAAVPKFEPSVEESA EQKD  
 SLAEKQDIVAVPSAFSDLPFGDGLP RRAVTQLVEQPLVVVD FLAHITAQGGHAAVIGWKD  
 LAYAGVIDSGGVCENIIAIPNPGTEPLNVA AVLCEGLDVVYKGP EISLSPTRARPLL GK  
 LRQGTAAALVMVGTKVSSPALSVD AEITDYVGIGAGSGRIRGVEMQVRAVSKTHGVRSGKV  
 LISRPQDAALLEPEQPTTLRAVP

>RXN00485 TRANSLATE of: rxn00485.seq check: 6436 from: 1 to: 2295  
 VSSVNDLFAKPYENADLVVTVSAKNEDSFAAFEQQLATTPGVEALAFDQNF AASVKQSDG  
 IYASTSVQSI SEGPLQWRPILEGRLPQGPGEIAVTTAPGAPEVGEHVSIRLSQNTEDTEV  
 LVVGVVEPAAQETLGGAPFVVASPDALMEWNSSGVRGEFRVATSDPASLEAASFSDATVV  
 VASAEGHVDKLADSYLGQRDRYFLLLAA FVAVAAVAFLVVFSAYSVLTGERVREFGLIR  
 SVGASTPQILGSVIFEAGILGVVAAGFGAPAGLMAARLLADNAARFGIRVPIDVIDLPSS  
 TMWLIAGVGVMSVIAALPAVFSVCRKSAVESLSTPAISRTSPWFGALWLLLAGIVGAGG  
 MWAYEATSDYRGMRSVALSIAGSGALVCALLIATAVLVPWLLHVF SRIVGGTVPTLQLGL  
 AFAAKQKSRSAALI AVILAGSALSSAVLHGQAHIGTHLVAVAKGMGGTDMMV TALDGEIP  
 AGMLEEISSIDGVKTAIAPATTAVELED SGNF SVLMLAEEDGASVMRAGDTGAPAGGLVL  
 GRNSPDQDAYPAGQAANIIVADTPTQAEIFHSDNYFSMIDPALATGPSTTRNV LILLDGD  
 SNQAPDNATAQAVRKTISLFDGRYSITEGFSARQNTFELVSRTITMSTLLAIVALAIAAV  
 GLINTVALTISERARDRYLLRTIGLTSTGQILVMAIEMI ALSLPAAIVGAVSGGFLGRFV  
 ASSATNTAATAPLQVDILGGTVLAMVAGSVLCALIVLAN KRRRVV

>RXN00496 TRANSLATE of: rxn00496.seq check: 7171 from: 1 to: 1026  
 MTRRLHGGEQDQGEHVKGQLKQLFDDDAFLTDLSRGVDPSEGDDALAGLLDLTKEAQEP  
 PATMPDWSTLLPGILDQDQLPVESTSDTTVMQASNPATQEFAPVSI SDTPNTATNSADA  
 DESATVVPLAARREKRAKSGSSGVHSLDASATQRKSHPF LSGLVGAAAATLVIAGGGA AV  
 YNADENSPLYGMNQQLFGNQDSPSVVELASTLEEVD SRTASGDVEGARALLEQARAMLDG  
 MAPPRKAPSEATRTVESEPGTQTLTATVTESASPEPPVTETQTVTSTEVQTVTTTAVAPP  
 VWTNPNEPTTTAAPTSTPSTGGGEGTGNDGDSGLVPPQTPGN

>RXN00503 TRANSLATE of: rxn00503.seq check: 5802 from: 1 to: 1722  
 MKPVFSVDQIRRAENTLFELQADPDELMISAASAVADVALAMVDGPAPAVSSEESILLV  
 GPGGNGGDALYAGAF LAEEGHVDALLLGNGKVHQSALAYYESLGGQIISDFPPHYLYRL  
 VIDGLFGIGGRGGLTPELASLVESFSASGIPI LAIDVPSGVHADSGELPPGVMVTVEGFD  
 NDAPMARQKI PAHIDADVITIFGGLRRHAVSPACGEVLCADINIAGGGGKSLSAELS QV  
 QAEDATPQMFASKAYQRKDSL FERANLKATAPHIHRIGQHFTVLNMEPGPDHDKYSGGIV

GIVAGSGTYPGAAVLSVKA AVRATSAMVRYVGPALNFVIOQLPEVVATQSLATAGRVQAW  
VHGPGRGLEAEQSAELAE LLSRPEPVLIDADSL LQLSAELRQALRERKAPT VLT PHKG  
EFERIAAELRSEGVEIPQADKDPIGAAQALAKEFDCCVLLKGKYTVIAAHDFVHAINAGH  
SWLATPGSGDVL SGLVGAHLAQSYAELNRLPEFFPDVTLSDSAIY TQIAPAATIHAVAAG  
LAARTEFGFAPTSASLIADAIPAATAKVDLKRIV

>RXN00504 TRANSLATE of: rxn00504.seq check: 4338 from: 1 to: 420  
MTYGFLVNTDLTHRAIDFDLENAAKFLGGADDGRVAVAFQEDGTLYAALYSASAKDEGAA  
ANPVASLGRNAAATGDGSFFSDPTTAICGPVIFVGAEGEDITLDEIERIKDGIRAARNYR  
DDYPEEFNLWRNAVYNLRTA

>RXN00505 TRANSLATE of: rxn00505.seq check: 7863 from: 1 to: 495  
MKSEFPVSGTRRFEHAADTQNFGEELGRHLEAGDVVILDGPLGAGKTTFTQGIARGLQVK  
GRVTSPTFVIAREHRSEIGGPDLIHMDAYRLLEDSEADDPFIALDSDLDTDLDAVVV  
AEWGGGLVEQIADSYLLITIDRETAVQEDPESEARIFHWEWREGR

>RXN00507 TRANSLATE of: rxn00507.seq check: 8687 from: 1 to: 855  
VAENLNKHL SKLSKRGPHRVLVGDMNYAGIPGKIYTPAEGDGIPGVAFGHDWMKSIKYYH  
QTLRHLASWGIAVAAPDTENGFM PDHKG FASDLESSIQILGGVKLGSGNVT VNPACLGVV  
GHGMGAGAAVLSAANRDLVRAGAIYPAKTSPSAIDAAFVAVKAPGLVIGSSSLGLFESGE  
PAKLAANWAGDVCYRESEKGNQQGFSEDTMFKLVAGIGSPQTGAQETVRGLLTGFLHQL  
AGEKKYKAFSEPDAEAKKVVS YFGQELQEHAFPKDTS PF AFLNEK

>RXN00510 TRANSLATE of: rxn00510.seq check: 4920 from: 1 to: 1509  
VNDPLAGYGAVISALQGASGGMYRGP AKSEGQLREMYQTIEGLDTSSLREAAEAAVGGTN  
EARIQGWVG PLLKFFGT VGGGMIATEIAERA VDWFKNRNDVEEVSEAADKAADAIDSTVT  
ESDQGMHIIQQLLDIVSTLTQILGSM DRGKFPQEF RDCVQTGADLIDQAGDMLEGLCAD  
RDDAISQCF SALT DHGKQVCETEPKPLCSAASGGSSGGATSSAAASSGGSSSSTASSGSS  
GGSSSAADSSTSTNAESSVEKEKTPAAVEK PDEK PVEK PVEK PVEK PVEK PVEK PVEK  
KPD PDPEKCKTEPVECEPTPKPETEPEKPTPTPTPGTPTPIPELETEDCEPGKETGTD  
ESESEECAPELNDVPEESDLIGQLIKGAIGIGIVVVGVLVNFLEQCVPVIEEVPVPEP  
EPIPEPAPQPEPTSVKPPPESELDKVAEPAPKPI PQANYTAAATNYSAPAHAPVVPITPA  
APEVPAAPEVPAPAVNLHKAGGW

>RXN00515 TRANSLATE of: rxn00515.seq check: 5675 from: 1 to: 702  
MRFSRVL PALLITTAVSIPTASAATLTADTDKELCIASNTDDSAVVTFWNSIEDSVREQR  
LDELDAQDPGIIKAAIESYIAQDDNAPTAAELQVRLDAIESGEGLAMLLPDDPTLADPNAE  
ESFKTEYTYDEAKDIISGFSSDPASDVLSQLQQAATTGTRTAEIRA EVFADRTDDYNESQ  
TALKEDFQNCIDAIDDARPIPLQYILIGGAIALAVIVLGIRAWTNSRKQSKHSQ

>RXN00527 TRANSLATE of: rxn00527.seq check: 7113 from: 1 to: 1764  
VIATSDVREISSEGIVARVSVNGNIEAARTTTIYTS LTVPVANLPVAVGDRVAADQVLAE  
LDASALQRQLDET DANNARAAMANRNSIAQSQQAYEQSRELLDSGLSPEINSARSSLRAS  
SQAYQDAIRSFEAKQRDV DGGLDSTMVAQSDALKAAREQADAAEIERLRADFGLLNNDRS  
NLNDVIGLLDERESLASAESELAQARAAGDLEAVAAAEAKVAGLEQSIASKTSTWPSQDQ  
TYLQSYTALEEAERRVASTTEALEIAERIYIDSLGKVDSELAQAQRAVAEHAHQDAAL  
GLETAQLSTQHQLAQSSAIDAALGLASVDNEAATRSTSQLRMDINNTTVRSPYSGIVSS  
VQAAQGPAPAGALLSVADDSELKITANVKEAEISNVTIGSRVTF TTPSTGTKEFAGRVSK  
VSPIAAAASAPATGEGAAAGATTTNTDVT FPIEISVTGDREGLNLGGSARVRIVHEIAPH  
VLTVPLEAVYKNDDGKDAVLIISDDNKVEEVEVKTAESDDFDIAVSGAGISEDARVLTQP  
GNYRGLIGETVKLHADTVEQAAAPFSPAAPFDPAAPAVSAKQTVGQVI

>RXN00547 TRANSLATE of: rxn00547.seq check: 6032 from: 1 to: 1398  
VARDFINAIGGRFGRFAQVGTQRFWTP LRVLITSLVFLAMGFLT KANCIQSGRGTG DVV  
SLNWSGSRQYTSACYNDIVPLYGGRGIDAPGFPYAFSWQEGDLTRYMEYPVLGGIFQWIC  
GIITRFLYPVVDVIPFHTLPESGLYFIVTALALAFFWVLVIRMMVELTGNRVWDTVLVAA  
SPLVAVHAFTNWDTPAIAAVIGAMLA VKRGNPLVAGVLIGAGTAFKLWPLYLLGAYLVLA  
VKNKNLKPFITMAAAAAVTWL VVNPVMIAYPKAWNEFLRLNRERGAEWTTIYQVIDRNL  
PINLNDPVLLNVLSFGLFGASCVAI LILGLKVQRTPRVAELAF LIVA AFLLFNKVWSPQY  
SLWLVLAVLAF PQWKVLFPMVTDAMVWPILMWHMLGTDNKGLPHEMLDLIVISRDAFI  
VVMIVGVIRQMLGRRADPVM DAHAGRDLLAGPFGAGERRKALKEVS

>RXN00552 TRANSLATE of: rxn00552.seq check: 471 from: 1 to: 936  
 VATSKILLYYAFTPLSDPKAVQLWQRELCESLNLRGRILISTHGINGTVGGDIDDCKAYI  
 KKTREYPGFNRMQFKWSEGGAEDEFKLSVKVRDEIVAFGAPDELKVDENGVVGGGVHLKP  
 QQVNELVEARGDEVVFFDGRNAMEAQIGKFKDAVVPDVEETHDFIAEIESGKYDDLKDKP  
 VVTYCTGGIRCEILSSLMINRGFKVEYQIDGGIVRYGEQFGNKLWEGSLYVFDKRMHME  
 FGEDYKEVGHCIHCDTPTNKFEHCLNEDDCRELVLMPDCFANVETRHCKRERCAAIAAD  
 FAEQGIDPLVTS

>RXN00555 TRANSLATE of: rxn00555.seq check: 6336 from: 1 to: 939  
 MKQPLRVLISCRPEENSGGKRSEQNDVFEFAAWLARTSDINVRGITTFFIRPWPSSSISK  
 LGGKYHKWYNLDSYRSRTIKGLKEAGVEKSQWDDDVSVFVDGPSESTLLTHAAEEFEA  
 DLILLGSDATAPKGRFLASSTADALLHSSPVPLGLVPRGVKLSKKGVTRVNYAFTNESDD  
 FEQGLRSSAELATNWNVPLRILAFSPTGITSAPTSRSLDISTELSSEWRELTLAMLDRAR  
 DGVLTDPNLSVSSETGSGWGWGAIDALRWKKGDLLCMGSHRTDTLSRVFVGSETMEII  
 RNSPVPTIIYPGL

>RXN00560 TRANSLATE of: rxn00560.seq check: 5757 from: 1 to: 375  
 MRIDPLETRQAVLAVKDWIEGEGDVKKPGRAALAAATRLSVRLLAQHAPGNSVEVRVPPF  
 VAVQCIEGPKHTRGTTPPNVETDAKTWLR LAPGQTTFDAEFESGKISASGTRAKEIADWL  
 PVVKL

>RXN00574 TRANSLATE of: rxn00574.seq check: 6894 from: 1 to: 879  
 MSFKVISTGPQAFQDRGRFGFASAGVGTSGSFDRLSAARANHALGNDPNATVVEILLGG  
 FEVEALHTTSIVFTGTEAEVMVRTAGGQSKNATTNTIIDVAAGERIRVEPATYGMRAYFA  
 ARGGFVAVKKTLSASTDLISHMGPCPIEPGDVIDVATDIADSQWWPKLRQLPTLWKRMP  
 ETTLTVIRGPRDKWFTQESLNNFFTQVFTVSNDNRIGLRMHSEPIQHRVEGELKSEGMV  
 RGSIQIPPGGNPVVFGPDHPVTGGYPVIAVLTSRSCDRSAQLLPDGKVRFKLL

>RXN00589 TRANSLATE of: rxn00589.seq check: 4154 from: 1 to: 450  
 MTTLSRKFFVSATTALAAVALVACSPNEIDSELKVPTATGVSLPSKNVSATSTATTDEDA  
 PGYIDCVAAPTQPAEISLNCAMDIDRLTDISWSEWDTDSATGTGTRIVTAANGQETETE  
 DIEVKLSFPTESSQGLVFTQVTVDGQVLF

>RXN00616 TRANSLATE of: rxn00616.seq check: 2419 from: 1 to: 345  
 MKSLPRFAPLITILALLVLAIGGSALANNRATPNVESEPATVNQRSTPTTSAYEPPATE  
 SPEEPTTQIQESPVQPPVAPAPQIPQAPQVPLNYQYYDDDDDDDDDDDDDDDDDD

>RXN00647 TRANSLATE of: rxn00647.seq check: 2211 from: 1 to: 633  
 MGIFEAIRAARAKTKAEIKAAEAKVKTEAKNKAALDLKREKLLVQKEKNLLKVEEKGLKK  
 RNKHELMKAKNILEQKRQGRNLKDKVKRWAGTARVLTPLLLPIIYRLSTEARDQVVKGRA  
 RRAGVTAEQLSQFAGHAAALKARIQGVRETAKNSSLPAGFVRDVEERLNELEAAANNSEF  
 MSPQQRNRAHQSI SRDLNQVSDQIQDRLLDK

>RXN00653 TRANSLATE of: rxn00653.seq check: 8269 from: 1 to: 765  
 VSVSQVVGIEILLTVGILALLFAYYEAYWTNVESGKLQESAGQKLEDEWNEARVNPRQKLT  
 PELGEAFARMYVPAFGSDFNFAVIEGTDEEDLLAGPGRYVDSQMPGEAGNFAVAGHRVGK  
 GAPFNDLGNLEVCDAIVVETYNWDVYRVMPMSTNGADRAEAADCFNENQVSRMAEGDY  
 VNVSGRSITTPDRIDATYPTPGVFDTA VREGSEALLTLTTCHPQFSNAERMI VHAMLVEE  
 IDKSSGERPAALEEN

>RXN00662 TRANSLATE of: rxn00662.seq check: 7679 from: 1 to: 1269  
 VSTIPLNRLAVIAAIIIGVGTGLFVAALNWSAIGVERLVYGADHLHYNPNVANVSPLRLSI  
 TVIVLSVVASAWFFVHRTGPKEVSIVGAIRGEKMPILETIASAFLQVTTVAAGAPVGAE  
 NAPRIAGALVGERFSRWLQLDIDAKRILVASAAGAGLGASFHLPLAGVLFALVLLVEAS  
 TRTVVIAIITTTAAVATTGFFVQTPDVFSTVPLTESPWMLLAAMVTGVVAGMCGHWFSAA  
 AHKMAQASPKGVKILWQMPLGFFVIAAVIYFFPETLANPRWLADSMGLDGLILSTILLVL  
 VLRTAMFLLAFRVGMVGGNLI PAFALGSMVGGVVGAVLEPITNVPIAAAFALLGAAAFST  
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>RXN00666 TRANSLATE of: rxn00666.seq check: 5076 from: 1 to: 915  
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 SLQNYLDTPEERPNIIAHPGINSRVPLFMLGSSSLNGAAMA AKLDLPFAFASHFAPFQMGF  
 AIASYRELAANPYVMAAANVLVCDTEEEAEFQISTLHQMFAGIVTNSRGKLAPPVRNLKD  
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 GTAWN

>RXN00704 TRANSLATE of: rxn00704.seq check: 5954 from: 1 to: 627  
 LTITFSRVALTTLAVTATTLSLSTAANAQSSLLDKTLDAQCIDADNVVSVVDYADSEK  
 EPEGACATEFTDGVVALESAGFKLTFDESEMGMKMTGINGVVPDWVETGTYSYYSGEVA  
 DDYSVDYTYEYVGASNSEPEGGTVEAWVVGTEETPALETLPETPAATGSSSEDGGWIAVI  
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>RXN00712 TRANSLATE of: rxn00712.seq check: 8070 from: 1 to: 696  
 MSLRKNLALGSSTVLLTAVLSGCVSLDERSTDTSTENVTTVTATLTSTAAAEPTRTTVQ  
 SATEASTTAPVQCNLDPRTSDFGPYLAQSRTPVGELAGSADSVVQVPDWFYHFQMGDNGY  
 DSCSKLSYVVLNGSNGDAERSTGTGAAIADVVLFDGHMVARPAPFEMKTVESVTRVSD  
 SEIQVYVGHAGRSTAEGVTDYFTFNFFVDNGVLSGRGDLPEHIDTHMRLYLL

>RXN00720 TRANSLATE of: rxn00720.seq check: 5001 from: 1 to: 666  
 MASPRRPQVAAPRIKELRLTGLDNADPDQIESNEQIESCRFNEAELSERDLGAGFIECE  
 FLGLEAHETELRRAQFVETRIERANAPSFKAARSIWRNATISDSRFGAVEMYEATVQALK  
 ISDSKLSFVNLRGASLRDVLFCNCVIDELDLGQARAERIAFKDCTVHSLTFDHAVLSNVD  
 LRGLDIERISGVESMSGTVISSLQAADLSGAFARHLGITVND

>RXN00722 TRANSLATE of: rxn00722.seq check: 460 from: 1 to: 1065  
 AVLREAGVVDAGGQGLVILLESIAEQINGNPPHHPHSHSEPAEEPSFHGKTGDLEVMFYI  
 ACDSAQTLDALHNELETLGDSLIIARETNTRGTVHIHSRRAGEVIQKAFAGDVSELRL  
 ILPDTSGSFTEEPRRVLMVAPDGLVAELYRSAGVKVARNIAQSKSDDVVAKIVSIARK  
 SGADDEVILLPNGLLTKRELVSIERSSHAFEQSVVILPTATLVAGLAASVHEPAQPLAVD  
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>RXN00729 TRANSLATE of: rxn00729.seq check: 9733 from: 1 to: 978  
 MSATNPDALDVQHVYPIKTKTPLAVIFNIISGGLIGMAELVPGISGGTVALVLGIYERA  
 LHNGDLLIDLIKVLIKDRSKVKEAAKIDWWFLGAIGVMVMVFSMSSILHTVVEDYPE  
 ITRGLFLGMVAVSILVPLGMMMDMRDAKKRLAIVIPLFIIICAMLGFFGTSTAPRTDPSL  
 IFVFICAAIAVCALVLPVSGSFLLAVGMYAPIMESLSNRDLSVIGVFLLGALTGVILF  
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 VAALMFAERVSSKNIDSETVAEEHPR

>RXN00730 TRANSLATE of: rxn00730.seq check: 2858 from: 1 to: 807  
 MSSQQTIFIILLFAAVILISIVMITAFAKTRKKRFAARAEGMANPTIPAPTPWQRFAGA  
 LAALYARPEWHKTRGAKRVYSAEQTYFGFVSAMPLGMVQNMQLQTDWGVKKSEHAVDQLSK  
 GVEVIVGVAAGNWRKNGVSPAQVEEAGQRLAAEGLAHPHFVVFQKQLQQADPNAEYDLV  
 LAFDIARVANLLRWAAYTDLLLPAEARWFQDQLGIAAAVSFGSWEYGERYVRGLQKNFK  
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>RXN00731 TRANSLATE of: rxn00731.seq check: 8578 from: 1 to: 2496  
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 SLNDPHFLTAGESASTTTAALMSTLWIIIVFVPSERILGSLKFAITAALIHITSIPLGIG  
 IAHLEIEADLNRWGNMMLADVLLTPDFWVFGVAAAFASASMPLLWRRRRLFLFTITLTLL  
 LYTGTLADVMTLATIIGTVAGELNRHRKTPGGRWLPGLTVREARIMTAILVTAVAAGP  
 VLAALNPLTHGPFSSATKLIWQPLVTEEHMHLCHTDSTSDACQGALDQLQGHVGPSVA  
 NLIPLILTIVVLAMGLSRGRRLAWILAVLAQLISIAVLMFQLTKLSADSTDLLWSVNAFSV  
 IVPWLVALAVLVFSRRAFQVKIDTTRISKSLGALMVTWLATAALWILATLFLPHAFHPPH  
 TLGLAFKELPFYRLPPTIETVLSHQLFPRSPAGWAVFEWTGTLFWLVVAATLYHLLMGVP  
 SNKAHEDQENAAATLLRSGSGDHLWSMTIWWGNTYWWAPENAGYVAYRVKRGIAITLGEPI  
 LGPDSSVSKAELAAQFEFASNQGWIVAWYSVCEEFSKERINAGHHTLRVAEEAVLSSAN  
 ADFKGKHFQNVRTARNRAAKEGVSSIWTTWADLSAEMQHKIITLSEEWVSDKALPEMGFT

LGTVNELSDPDYLLLAIDEEHLHGVTSWLPVYEKGRIVGYTLDMRRDPQGFKSVIEF  
LISEAVVIARDHDLWMSMSGAPLSTPPGVADDGTIGQILELLGRAMPEFFYGFRSLAASK  
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>RXN00738 TRANSLATE of: rxn00738.seq check: 6764 from: 1 to: 363  
CQEETDGGFFDFGRDMRPGERRSYGTLLNDATTQVSHILGNAFTRSGLNAEYANLYGQALV  
GMVSMTAQWWLDERTPPKEEVAHVNLWCWNGLTGMEADPKLTPISSAEGAIFGQEKES  
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>RXN00750 TRANSLATE of: rxn00750.seq check: 8593 from: 1 to: 438  
MDWSIIINVLAVATVVILTIIAAALYRGFTRNKIKKLEAIREAQQHERDNPTIRIADLR  
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AEKIMLVDAVTAAWTLYSTKANTGST

>RXN00762 TRANSLATE of: rxn00762.seq check: 9427 from: 1 to: 876  
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NSELVGLAAADEETTELAVHPAHRQGGIGKALIDAAPTSSIAHGNNTAGAQALASTLRMK  
KTRELLVMEISDRALDDSAAYKDPDGITHSSLANAPVEKSVAEAKWLQSNNEAFDWHPEQ  
GGWTTHRLAQAKADWYKSDVFLWDGEEIVGFHWVKQHSPELQEIYVVLSSAYRGRG  
LGDPLVRLGLHHMRAHGARKVILYVEAGNTPAVAAEYKLGFTVAESHVVEK

>RXN00768 TRANSLATE of: rxn00768.seq check: 4486 from: 1 to: 1119  
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TMQVTVVDGVFYLDTSAAEFDTLIGFLTKMIFWSEVTVQEADLAIITLLGQEIAPDAVF  
ARRVDWNGPSRIDVAIRRENLEEGVDKLEAGAKLTGLMAYTAERVKALEPAAGVDLDDK  
TIPHEIPHWIGRGEHLGAVHLTKGCYRQGETVARVDNLGRSPRVLLHLDGSAPLDPVT  
GAEIKAGARTVGRGTGVVHDADYGPIALGLVKRSALDKELHIDVSVNVDRDLLPAEES  
QRGRAAINKLKGL

>RXN00769 TRANSLATE of: rxn00769.seq check: 3734 from: 1 to: 213  
MGRGRAKAKQTKVARQLKYSSPMDLDSLQRELANQSPRRSYSDTPDDEDQYAEYADWDE  
DDTDNRAYGTN

>RXN00771 TRANSLATE of: rxn00771.seq check: 865 from: 1 to: 819  
MTNPYEAFIPLKHRTGIEPEHTFEWENKRVHIAARRRREAPVRVIVVHGLGTHSGALWPL  
VAAIEGADLAAIDLKPTLYDDWLRLLSEFISSEDDGRPLILIGAGTGGLLCAEAHRTG  
LVAHVIAATCLLNPSDQPTRRALFRFSPLTRLIQGRLRNREIPVTRVLNFSKISRSPALSK  
LCAADEFGASKITWGFASYVQHKAKLGAVPVTLMHPDHDLLTPVELSLRTLRLKAPT  
DVVMLKDCGHFPIEEPFGTTMLETVTSVIARNS

>RXN00785 TRANSLATE of: rxn00785.seq check: 7074 from: 1 to: 657  
IIATLGVTLLVEARGFLTVASIPILFGIFTPLTSWFVSQQGVAANVSPGVSVTEILTAV  
YPLAQLFPTLIMVTLVAALIAVVRIILLRRNQESRQVSGELTRRAQREAEANQNAARRA  
RAQSTRVQSSKTRNRRRAQPTGDTGSQVTVDELIRRSQERRQTVARQRTERGVPFTPTPGP  
VVAPKPRPSAPEAPAPTVDGERRQAAPKRRTSLDDDLYS

>RXN00795 TRANSLATE of: rxn00795.seq check: 1530 from: 1 to: 528  
MIISLVVSAIIMLVAVGFTGMCSFNTGSPENGQVPEVDASTFMSMEARAMTDHATRLPET  
PEGWTTNSARRTMVDDTPASVVGYYTADEGYIQLTQTGETVEDAVAGYDTRWRDLSESYD  
LDGHDVGIYTSQESDVRDLRVMDLGDARVMVSGAATDEEFNDLLRAVANSEPLPTN

>RXN00831 TRANSLATE of: rxn00831.seq check: 2669 from: 1 to: 702  
MSALETQWQDWSSVLIVVAHPDDPEYGLSAAVKEWTDAGVEVSYLLTHGEAGIQGLDP  
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DVEAYGGLNQADHRVAGLAAIDATRDAANPWAQPELLQEDLQPWGAEVIIAGHPEPTH  
MDLAKDSVDAGVASLQAHKEYLAALPDPPKPEEFIPAFLEVEGGYAAAFRVFGR

>RXN00835 TRANSLATE of: rxn00835.seq check: 6529 from: 1 to: 954  
MAGGLAALLDDVAAITRAAAASLDDVTAMAGKTSVKAAGVVVDDTAVTPQYVQGVKPA  
LPMIWRIAKGLVNKIIILPIALLLSAFAPWALTPILMLGGSYLCFEGAELIWHSLHRR



IKGEQHSTEPKSOESPKSEDQLVKSAITTDLILSAEIMVISLNQIADQTIWMQAAVLVFW  
GIGITALVYGVVGVVLVKMDDVGLTSLKRDSAGIQKFGRLVKAMPVIVLQVISVVGVFAML  
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VVSVIKKFIPQRAQNSSH

>RXN00836 TRANSLATE of: rxn00836.seq check: 6589 from: 1 to: 1716  
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PIESATKIGVWVQDEFLGVIAESQFLNLSQSLRIFASGHLISSQLLLTPSKGSLASVLLP  
NLKFGILISNDPPRADSHLLPLGRMWRVEPTVHALFEDFSLGSTILFGLRLDLEALIVSYN  
GIECGILNFDDASALSSAVKFSNANGLTPTVLGHVVRENGETSFEIDVLPLELWSKKQHR  
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FSLFAVIFDKLSDHSAMLLAVISLMLFVLALVILFKRIQSTNTQRWNLASSVGLLATLP  
IIIFLVADTLIPQGSLENHAQPDVQVTTLANRRPSSPTSLDSLALNSPSSPSSPSSSML  
QNSEMFASPPIASGQSPVSTFRSWLDRSILPLTRENSASESAVTALGPSIVQPASESITT  
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SEPVATDEPSETSEQTSPLLARDTPELNRKQL

>RXN00840 TRANSLATE of: rxn00840.seq check: 2272 from: 1 to: 714  
VTKTLPRLLTVAAALAIAPATPVASAVTPVEQAFNASSNLSSGLPVDQWGRPNQEQFRQO  
IEQAVNQPFVQEIKNIVSQAMGFITGDGSEGGDIEIPDNAPRIAQFFWPTRENCINGN  
SAAVGSFAVPGPADLPLPGAGVGQTSFVFTALGTGPLAEQQSTAMTVQWANLSNFTHGT  
TTLSTNGINPDGPSTISGVADTGRGIIIVASMSGGLTTSTENGSAFCNFIPTAVVFDVR

>RXN00841 TRANSLATE of: rxn00841.seq check: 5409 from: 1 to: 537  
MTDLHPVKQEIFNTAESINTDPKGFLEVDTFKVTDFGLYMARGANHPKFGYLESWLLPE  
LGLRANIFHFRKGVDERQDYIDVAEIRVEDNIWTTDRDYLDLISVCGEPTVMDIDELA  
AATSAGLITADDAERAIDATLNAVEGITRHGDDPMQWLRSGIELTWADASQVELVPAE

>RXN00846 TRANSLATE of: rxn00846.seq check: 1812 from: 1 to: 870  
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VNGDADQLGGFRIHELIALYASLEILGVRGIHLGGAGCWRDSGMVGDPAHEHPRAFIHSGDRA  
VEQLKELLAELKPHLLITYGPDGGYGHDPHIRAHEITHAAAGEQRILWAVSDREELEDGL  
KAITGLPEGWGRGELSVDSDVLSVELNDEVYATKVESMRAHATQLWIADGVSRTNPVA  
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>RXN00850 TRANSLATE of: rxn00850.seq check: 9820 from: 1 to: 828  
MANPFSKAWKYLMAFDISKIEENADPKVQIQQAIEDAQHQHQLSQAAAVIGNQRQLEM  
QLNRRALAEIEKLGNTQRAIQADKARADGDKKATEYENAAEFAAQLVTAEQSVEDTK  
QLHDQALQQADQAKKAVERNMSMALQOKVAERTKLLSQLEQAKMQEKVSESLKSMDSLTSG  
STPNLDQVREKIERRYANALGQAELASNSVEGRMAEVEQAGVQMAGHSRLEQIRAEAMAGG  
SLTAGNKQESIEAPAAGNNVTDDAVAQRMRELGEA

>RXN00854 TRANSLATE of: rxn00854.seq check: 1696 from: 1 to: 213  
MRLSEFRQLIEDEFGEAKGEWIAHSHVIGALGVTADVAVDTGVLDLDRVWEQLCIDFSVPE  
ERRLGKDEPGF

>RXN00855 TRANSLATE of: rxn00855.seq check: 9166 from: 1 to: 285  
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NLVDAETLMNNDPFHVENVLDNRVIRSWNPVTKDF

>RXN00869 TRANSLATE of: rxn00869.seq check: 9381 from: 1 to: 921  
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DNETAMANRYELLERMAIALSRPGVDGVLGTPDIIDDLAALGLLDDKIVVGSMMNRGGLRG  
ASFEMDDRYTGYNVSSMVDRGVDFAKTLVRINLSAGTAPTLEATAHAVNEAAAAQLPIM  
LEPFMSNWVNGKVVNDLSTDAVIQSVIAAAGLNDSSYTWMKLPVVEEMERVVESTTMTPT  
LLLGEGGNDPDAFASWEHALTLPGVRGLTVGRTLLYPQDGDVAAAVDTAARLVHTDIQ  
QFTSQSI

>RXN00915 TRANSLATE of: rxn00915.seq check: 6638 from: 1 to: 630  
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NQDGLPELQRRPFNELVSRRTTKLHIGVINVIDGSEGLMHAELNPLVGIIDSVCSSHQ

IHRSNVMIGAVAATLDEELPILRGYVNLMLAPEDSHSPGTATVTYRHGFSDHRLPCTAWL  
ISPACTDCGKAAHPHQSNSSYLKVPFVW

>RXN00917 TRANSLATE of: rxn00917.seq check: 3769 from: 1 to: 2679  
MVNTLNSKTVNVPREFARGVVAATALFFGALVSLAPSALAEPPAVEAGASGSLNLGAC  
IADKGTLDVIMIDETESLIHEARDGVVNANEPGADAQHHRVPAAQSFVDELLAKQSDGD  
LNTRIRVAGFGQTYKSGATDPDNYGAWTQLDASTVGGVQDEISRFAVRTQEQYTNYSASAI  
EGAYQDFTRSGSEDACRMLVTFTDGALTAQEGADVAEALCAPGGVTDRLRSAGITHIGI  
GLSAPTNPSDFSLRLRGTAGGGTCGVEPANGAFFPADNVGGLFAAFREALAIGGETIGET  
RAGDPFSFTLDNSVNSVRFTAIKDDLGPNAHLVLTAPNGETVELKDSGSSVANSTDVSW  
EAESSPVKMGADGSLNLQGGDWKGVWQIQFQGIDPAAVDGRVFNSEIQQDLQLVFSGGD  
STSGALNLRDDQQLNMQLVGRDGPRILEGSAVLGLFTRADTGEFAPLAQGIDISGGEL  
SFPLDTISQLPAIGTVEARTTITTAGVDDLPGTTLSPILNTRITITQRDMPQLPASVRF  
TADEDVVTVDIPITGPGKVWIAPGTQLSGVLPDGVGDIAASSTFDSPDNALVLGLDEQGT  
IPVELTVSDLRDGLVNGSIPLQISNAEGANETSVDLPTEGTLSPINASTFALAFILALV  
LSLLIPLLLIYIVRFLSAKVPSSAMSGVRIPEVFSGEALRYAGSTMPDLASQTTATKQVV  
VHGDTFNVEGHKLKQVRFQNLNPIASPAVIVQTDPSISFDGKQKGTQAKLPLAVQGSWFLT  
ASGADPSKMEIALTNLPLEQQGIDRMIAGITSKAPDRARELQKLLDDAATSQPAKVPPR  
APAAQGHVEKQAPSFGTSGGGGFGSSNGGGFGSGSGSNDTNGGFGSSGGFGAR

>RXN00921 TRANSLATE of: rxn00921.seq check: 1572 from: 1 to: 513  
PAAILLDHIVPNFSRDRSLPDIEDWTRSDAQQIFAGIIAGASVQTGRSHFMWDLRLAYF  
GVALIGDEDTYRAFTTLTVDSVLSFVQLTLQEGRTEDIRREFEYGEQIAREDLPSILTNA  
RAVQQYLGIDQDIINKKVSRSRDVNQIFTEMARAIIRAISSRNNIGKDMRS

>RXN00943 TRANSLATE of: rxn00943.seq check: 2288 from: 1 to: 912  
MIRKLARPLASVYVADGAETVLNTSAHVEGTQVVLDRIRYVLPKRYAKRISRDPELVTR  
VIGGTVKGAGSLLAIGRAPRTSAATLAILTIPNILARNAFWETQDADEKRNRRNGFLTNI  
ALLGGLFITSVDTEGKPGVKWRATNATKRGKKQLQALPTKSETEKFGEKASDWFNDTSD  
KVTEYAYTAQDFVGENKDDWIKSATETAHKVADTVSDYAHKATSYLEENSGDWLEAAQAN  
AKTARKSAVKAAGKAQEKANFALQVAEETSGRANKKATKSYDKLQKQADKAIDRAQKKLK  
GIEL

>RXN00945 TRANSLATE of: rxn00945.seq check: 2895 from: 1 to: 972  
MLERLKRDLPLIVLIVLAVIVAIIPVRGVAADWFDVAVKIAIALFFLYGARLSTQEAL  
NGLKHWRLHLTILAITFGIFPLIGIGLEPMTAFVSEDIYRGILFLTLPSTVQSSVAFTS  
IAKGNVAGAIVSASLSNLGAVFLTPLLVLIMSAGGGVHVDSQVFLDIAIQLLLPFILGQ  
VCRRWVKNFAANKATKIVDRGSIAMVVYSAFSAGMVAGIWSVTVSVLEIIYLVFAILLVM  
AMLWFTLFMATRLGFNRADSIQFCGTTKSLATGLPMAAVIFGGANIGLLILPLMIFHQ  
VQLMICAWLAARYGRDAQEOKANA

>RXN00946 TRANSLATE of: rxn00946.seq check: 9850 from: 1 to: 774  
MTHTLQATNPLDQTAWHAWHFSRNKEAISRTGATSLSATEWISATTLKDAHTFPSLPGRW  
YKRGGGVVG AHLPPAFATTGTVQLRPGELLIAEDFTLTVIERLGQFALQVFDARNPKRFE  
FHSIAAFPPSEEWRIEARFFPEPDTVNATAADGVIVATPTAGWVHFLKGRLDYRLRVTVQ  
KNNLRALFSDNSSTLGVYQHRFVDIPRPDAEGNTIIDFNRAYLPPKALNRKFLCPSPSLN  
NHLNLTVEAGEKWVAVAG

>RXN00953 TRANSLATE of: rxn00953.seq check: 8687 from: 1 to: 753  
MAPPTVGNIMQSFTQGLQFGVAVAVILFGVVRTILGELVPAFQGIKVVPGAIPALDAP  
IVFPYAQNAVILIGFLSSFVGGVLGLTVLASWLNPAFGVALILPGLVPHFFTGGAAGVYGN  
ATGGRRGAVFGAFANGLLITFLPAFLGLVLSFGSENTTFGDADFGWFGIVVGSAAKVEG  
AGGLILLIIAAVLLGGAMVFQKRVVNGHWDPAPNRERVEKAEADATPTAGARTYPKIAP  
PAGAPTPPARS

>RXN00959 TRANSLATE of: rxn00959.seq check: 3462 from: 1 to: 456  
MTVIGIILGSLFGVLAVLLIVVGALGWAAKLPGNPVVGIRVPEVRKSQELWDMHRVAGP  
LWVLSGVSFVIASLVAFVAGWMLVVALGVEAAIAFIGMGAGMAAHTVAMVDAKRIRET  
PQAPVSAEIEEAGGVTTITSADYQQDSAECQD

>RXN00963 TRANSLATE of: rxn00963.seq check: 4671 from: 1 to: 837

MRLATIRTNNGTTIARVESENTATTIEGFANVGELLQESNWRELAENAAAGEAVTFENKEL  
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 WEGEMAVIIGKRARRVKQADAAEYIAGYAVMNDYTTTRDFQYAAPAKTPQWHQGSLEKSA  
 GFGPMMTTTPDSFEFGELATYLEGEKVQSTPTNDLVFSPEKLEIYITHIYPLDAGDVIVT  
 GTPGGVGHARNPQRYIGDGETVKVEIAGLGFIENTKTVFE

>RXN00971 TRANSLATE of: rxn00971.seq check: 9758 from: 1 to: 318  
 KALSIGTQWAQVMGINHAEAEELDEALSPLINRLREMGFDPTETEEANSLALHSCPFVVN  
 DKRPSAFVCAIHAGFIQESLGENNRIQLELKPLNAPGTCKVHVFE

>RXN00991 TRANSLATE of: rxn00991.seq check: 2362 from: 1 to: 1380  
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 SFVLGSAQLGITITITLATGFLAEPVLAKFFTPALELVGLNESASSAVALI IALLVATTLS  
 MVFGELVPKNWAITNPLGVARFVHPVNWFNMVLKPFINGMNKSANFIVRKLGIPEAEEL  
 ASARSSQELTALVRSSAESGGLDQNTAAVINRSLQFGDATADEFMTPRSTIESLRATDTV  
 NDLIELALETGHSRFPVTEGDLDETIGMVHIKDAFSVVQAERATTMVRDLARKIPVVPAS  
 LDGDSVLNAVRSAGSQVILVADEYGGTAGMVTIEDVVEEILGEIHDEHDDSDAERDFQQF  
 GASWEVSGLVRIDELEKRVGYVSPDGPYETLGGIMYTVGAIPRVGDVALLPLTDTPTMD  
 EFESGFSGRWIARVTVMEDRRIDKAVLTPITHEEAKEYEK

>RXN01004 TRANSLATE of: rxn01004.seq check: 9066 from: 1 to: 1062  
 VSIWATVLLIIIVLLSANAFFVAAEFALISSRRDRDLSLVSQGGKGAEKVLYATEHLSIML  
 AGAQFGITVCSLILGKVAEPAIAHFIEVPFTSWGVPNDLIHPISFVIALAIITWLHILFG  
 EMVPKNIAIAGPETLGMWLAPVLIAFVKITRPLIEFMNWIARLT LRAFGVEQKNELDSTV  
 DPEQLASMISESRSEGLLDAAEHARLSKALRSEQRSIKELVIKDEDVRTLAFGKSGPTLH  
 QLEEAVRETGFSRFPVTGRDGSYLGIIHKDILPRLADPEMDPSETIPRSALRPLSNVDA  
 DGLMDDVLDLFMHYRSAHMAQVRLKGELLGVITLEDLIEEYVGTVNDWTHESSDD

>RXN01016 TRANSLATE of: rxn01016.seq check: 586 from: 1 to: 648  
 LLPYAIIVGLVILLPSSWLPRWAVAVLGEVSLVPAVVFGGGFLLIPSMFLIGSALVRIGVV  
 DRAENAPRAMGVFFAVSAAIAIPTLIIQARDITSSGFSIVSTVAGLALGGVYISLVLLAL  
 HTPIRGALAAVFAPLGRMALTNYIGATILMLIGGLIVDLPHSTSWTATVLLAAGILIIQE  
 LLSALWLRHYTQGPLGYLWRWVTWGSRSFPLTRSAS

>RXN01023 TRANSLATE of: rxn01023.seq check: 9173 from: 1 to: 978  
 MSAVNSAGRPANGGINKTPMIIALVLSIVLVLAFLGARVLLGPAGQQQIAMSGLPAPDA  
 ESAECAALLEDLPGEAFGHTRAEIMDPVPPGAAAWSTDLERVTLRCGVDMFPQYTALAN  
 TVDVDGTTWLPVSDMTPGSSLETWYSVNRFPVVAITADDISTDSADNPVAPFSSAVDKLE  
 KRDGQPFDAPLTGLSSAGTTCTSLFDALPRQLEVGDDGTTYERIEEDRMQAAGYSDDAV  
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 AVSLPQAASSSLITISGFIEDTVPAE

>RXN01028 TRANSLATE of: rxn01028.seq check: 7950 from: 1 to: 2049  
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 KSPQLYNPETGVTYEWEFVAQAAWWIRNKPVEVILPTGESMTVKHKSVLASASYPLRDNV  
 AYWRSEPKTPQLFPVAKSGSSLEKKYNYTSVGTAIHEDFSSYPLLLTNMAAFTNADLG  
 IDEKTGRPRDRYREIYEQKEIYGAQRKDPSIDEETKQRLGILREGTKLILNSATGAADAG  
 HDTPILMNNRVIAMRIIGQLFSWRIGQAQSLAGATIISTNTDGLYSVLDMGTNQRVLDEH  
 ATAIGVQIEPEELDIVSKDSNSRAEFLNGYINAAGDLACWDGPNRSNSLDHPAFVDHVL  
 VKYFQLVVNNTVPEIPETPELEGVPLALDQPMNRHEVSKIIVATMHKEFEPKKLSFYQNI  
 LASSRGSNTFLFSVPYIPATEGEETHPATDTSTIATPTLSFDAYGNKAEVMPTQSTVDKR  
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>RXN01069 TRANSLATE of: rxn01069.seq check: 984 from: 1 to: 714  
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 VGSFSLILIGPGIILLTLSGMQALLTMQSGVITQGGAKSANEHRQWETYKATSMHMG  
 WYMFVLNALILVMILNEFRPNPLPGGFIIGLIGIIAATIVLLVLIGKTTTSLAKKYPMPD  
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>RXN01071 TRANSLATE of: rxn01071.seq check: 172 from: 1 to: 2064  
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 ELVDALAAELGSNFDVETGEALVEQATGMITQALS FVQYFLVAFGLIALLVGTFIIANTF  
 SMIVAQRMREFALLRALGAAPGQITRSVLEATIVGLFGSALGVLGGMGLVAIIISAVLNN  
 LGMPMGSSVGLTPSAVVLTALVLTGVVTVSAWAPARRAGEVKPVEAMRNMETTTMRSMMG  
 RTITGGIVLALGIIFAIAGAMMTDSSTATRSILVGIGALFVIVGTFLEFSPALSMPVVGGL  
 GKVIGAPFGSVGSLAATNSKRNPRTATTAFALTGLGIALVTAIGMLSATMKDAVSDMMAE  
 QYTADYILQGPTNGSITMPKESVNDVRDAEGVADVVLVSMNSASVNGQASYSQLGQSVTF  
 VADGDLSKVISTESIDGSLDLSNPGVVTNQTFADENGWAVGDTLQLESMTGQITIGDIELIG  
 TFTGNDAGNMIISSESLADTPAADTAVPQMMLVVGEEGFDKEQLRTNLEDAVADYIVIS  
 VKSATEFAGETVAMIDTMNLIYALLALSIVVAIIIGIINTLALNVIERRQEIGMLRAVGV  
 KRGQVRTMITLESVQIAIYGAVIGIAIGLGLGWAFVTVMSEGLDAAVSIPWQVGLMLLV  
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>RXN01075 TRANSLATE of: rxn01075.seq check: 2212 from: 1 to: 411  
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>RXN01085 TRANSLATE of: rxn01085.seq check: 551 from: 1 to: 879  
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 SPNDKELFDELGVRPYVAVEQQIGTSSAHTTCYQPLDEFGNNGDCTRSVPKEPVWYAD  
 YVASVFAEHGFDAPEPIDNSVGSWLLFGHVGIIRVTFVIAVAGVYAMSRAAMMRQLETQ  
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>RXN01121 TRANSLATE of: rxn01121.seq check: 3374 from: 1 to: 1086  
 MNPEFIHGATEIETTNRGLRPHRLSKEIVERYCDPQFSAMERQPSGVRVVCRTTATSVTL  
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 DGLSEQEKVVEFWLPHNEEIEVISLKANAALNTVEDTRPVWINYGSSISHGSVATAPTKI  
 WPAIVAQSKNYNLRNFGFGGSAMLDPFMARLIRDTPADLITLIGINIVNGDVMRRRGLE  
 AAVDGFINTIRDGHPTTPIKIVSPFYCPIHEKTPGPGAFDTSSFGSGQIRFIATGEPDEH  
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 QL

>RXN01128 TRANSLATE of: rxn01128.seq check: 7667 from: 1 to: 1014  
 MSFTFIRTFVFLGTLVSCVPEPPDSYTKESTVLRVQVSDFNLFVELAVALGYLNNI  
 ELQVVGSVQGGVESIESLKKDDIDFAAVPFI GLVAGEIATGAPIKAVAASYGISHDSSSA  
 LLVLKDSEIHEVHDLIGKTVGINTLGALGSAMVERHLFDAGLTEPEIVSVTQRALPGEYL  
 EQRLYQGGVDAIWVTD SAKHQALETGDFRILAEDSDLVQELNTGCMVVSQKLIDEHPAVV  
 GELVDGVAQAIEFERSHSPPEVREVFNYLEAHGQSDRISSFRYWEHSGIATRGGVLSDR  
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>RXN01134 TRANSLATE of: rxn01134.seq check: 3892 from: 1 to: 771  
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 DTDQVAAWIREGAGETAVVPKTI RDTVFHESRLLSATQDTGVWKGIFALLMGRGARDWRT  
 GQQFDRWTFDELGCNFHQIFPTKWCKERGIDPVLTESVLNRTPMGRRTTEVVIGDTPPSRY  
 LSRVQSKSLMGDEEFDQMLDTHLLSAEDLHSSNTTHFFASRRTNFIDMVEDAIGKAVIRD  
 VNESDLTGGH DGPSVHG

>RXN01140 TRANSLATE of: rxn01140.seq check: 3026 from: 1 to: 933  
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 VTRKFYIDVAKAVESPVMSDEAIFSVDETGKII SHFGPVIDGGITDLETALAHGCLPVSV  
 LLDNGTDFLFDLADMAGEGAREHAKRFQSQIVKTLVSYDIPMIRLDRETAKGGIGSIFA  
 QANSSGLQMDVFDLLTAVFAADESVETEFSLRDDWVRVERNLRQHSALDGIGSTEFITAV  
 ALLVSARKGHASGYREDILNLTAEYIPA ADEMIKGFDEAAEFLRQRCIFESRPGSIHRA  
 DCSTGRDPHPA

>RXN01148 TRANSLATE of: rxn01148.seq check: 3053 from: 1 to: 600  
 MTSPVENVKKKPRPLALSPSRAGDYQCCPLLYRFRAIDRLPEPKTV AQVKGLTVHAVLEY

MHKLPREEREYPAMVKQLKPTWAQMCEEDAELKELVPEDELYDFLVDSTLLRGYFEMEN  
PQGFDATECEMYVDTVLPNGVPVRGFI DRVDTAPPAKSELSTTRLARNQSRSGASKRSSR  
CCSMHWSTGACSMKSQLSFV

>RXN01153 TRANSLATE of: rxn01153.seq check: 8673 from: 1 to: 543  
PFLSPIVSTHAVVAYSTARGFGEHRVRWDYAQESPLRDTRGFDLRRYHQAPVVDPHAIG  
VANVFVPNGARFYVDHAHPEYSSPEVTNAWDAMVYDAAGDHILMQAVSDVASFTSQNRSV  
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>RXN01154 TRANSLATE of: rxn01154.seq check: 4612 from: 1 to: 639  
LSKKISLETTLNIRGIINTRDEPHTDADHWGRHLVIGDANMSQTANFLKFGMTSLVLDAI  
EAGVDFSELKLKNAVSEVAKVSHDLSTHQLRLADGSELTAIDILRRYLDKVQPFPAETPV  
EQRVTALWGEVLGLENLLSTSHLLDWTAKLALIKSFEARGLSINDPKMYLIDLQYSID  
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>RXN01155 TRANSLATE of: rxn01155.seq check: 3917 from: 1 to: 1470  
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DVGSHPEYATAECDNLTLINFEKAGDVIADRMVDAEESLAKEDIAGQVYLFKNNVDSV  
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QRS DHVWEGVSSATTSRPIINTRDEPHADSHSYRRLHVIVGDANMAEPSIALKVGSTLL  
VLEMIEADFGPLSLELANDIASIREISRDTGSTLLSLKDGTTMTALQIQVVFHASKW  
LEQRPEPEFSGTSNTEMARVLDLWGRMLKAIESGDFSEVDTEIDWVIKKKLIDRFIQGN  
LGLDDPKLAQVDLTYYHDIRPGRGLFSVLQSRGMIKRWTTEAAILAAVDTAPDTRAHLRG  
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>RXN01167 TRANSLATE of: rxn01167.seq check: 6639 from: 1 to: 396  
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LGILMEGEGVESKPVKPPRTHWDMRLRERRSIEELDVLLLEERIEALRKRNRNAAKLLKAQQ  
EAEEAEKAAEEV

>RXN01169 TRANSLATE of: rxn01169.seq check: 2636 from: 1 to: 996  
LKRVEAWDRFQIPLYITALIAGALVGLQWPGSTGGFESAINPALMALLYATFLGIPITR  
IGAALKDLRFLIVLMSVNFVAVPLVAFALSRFIAGDEALLIGFLLVILAPCIDYVIVFAG  
LARA AQDKLLAATPILMLVQILLIPVFLAVFVGS DALGSISFGPFVEAFFLLILIPLVAA  
AGTQQVARKWQVGRTIMAAAEAIMVPLMMLTLFAVIASQVEAVSGQFTDIATVVPLYVAF  
LMVMPIPIGGGISKLGGLGFKEQRAIVFSGATRNSLVVLPLALALPAGLEIAAVVVVTQTL  
VELIGMVVYVRIIPLIFHEKQTYRKLSGIGES

>RXN01173 TRANSLATE of: rxn01173.seq check: 4063 from: 1 to: 615  
MHVSTLPNKKLRTRIFAGTAAVALSLGVASCSNAEDAVDSATDAANSATSAAGSAINDAT  
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>RXN01174 TRANSLATE of: rxn01174.seq check: 9196 from: 1 to: 750  
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EGIQADGAAPASTDMNGTWDVAPGSIPNTTSAGFTFAEILPGEKITSGSTTGVTGEVVI  
EDNSLISGLITVNMTHITTDQEKRDINVRKLFHTDQYPEATFEVTDSDVLSALPDTGSI  
AQVVIPGELTIHGETKAVEPTFDVLRTGDQVIVASDIEINRLDFGVETPEFIAAKINETG  
EINVRIVLEK

>RXN01206 TRANSLATE of: rxn01206.seq check: 3690 from: 1 to: 300  
VSAENTENTDSPFEISEFDDHRRPLQRAKFGSIALIVFTLISLAIWGATRGVPGVSAVV  
IGA AVGAGFVLLTALS VLF TTNSNVTTTGAVVLGGWLLKI

>RXN01210 TRANSLATE of: rxn01210.seq check: 8240 from: 1 to: 831  
MTTSHTARGLQHATPERRKTSFFKTS LFKAEWLQFRRNKTLLEFMATVFPVGIPLLLFLIG  
NGGAESANSFDYFVMTLLFVQFYTVLSMATTRDERVLKRLRTGEARDIDIIGAICFP  
GALLTLIFTVVIIPLLMVLGAPAPINLVPIVFAVLIGLLLC SALALMTSGFTRNAEAAQM

TSMPVFMLAMGGLGSIRFVFGDSIVADILAYTPFAAISDLVQIGWAGATFADSVGGVEAA  
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>RXN01229 TRANSLATE of: rxn01229.seq check: 2418 from: 1 to: 1278
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GLASTIAGAVSMALGEYVSVSSQRDTERVLI AKEAKELAE DPTAEHVELSEILHSYGIXX
XXXXXXXXXXXXGXGDALGAHLQLELGIDNEQLTSPLAAAFSSAVAFLLGALLPMVXVFXAP
XGWDAGVXFVVTLVLAXTGFISXXXXGTXPMRXCXXXXXGGXLXXALT XPSWXXXXXXAX
XXXXXXXXXXXXXXXXVXXXXXXXXRXXXXXXXXXXLXXXXXXXXXXXXAXXGXXXXXXXXXXXXXX
XXXXXXXXXXXXFXXXXXXXXXX PPLSGEILLAGLGGEIGMGEPRI PVT TGDLETRGLQLCLGKL
GQWPPVPGGGHGM IHRFQRRPGEKGHQQATTILHRHPQCDQGVGQLARAHVDQGVPGQQAC
PALRRV
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>RXN01231 TRANSLATE of: rxn01231.seq check: 7153 from: 1 to: 243  
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>RXN01246 TRANSLATE of: rxn01246.seq check: 4104 from: 1 to: 507  
MKRITITIAALALTSTLVLSACADNTEGENTDTTTIATTSAPDTTETTGTATDPETETGAA  
GEVSAEHNDAIDMFAQMMIPHHQQAEMSEILLAKDDIPAEVIEFTQGVIDAQGPEDRM  
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>RXN01249 TRANSLATE of: rxn01249.seq check: 8446 from: 1 to: 471  
SQIVAVSSHGLTTIQEIDVKRAAIAAAALTLALTGCSAADPEPTADGTVSQDTFLTTHGL  
AAMDAVEIIDHLDRQKVTERPTDLIASVRADELLLSSDDQEVVVDLPDNQTYVSIAPYLN  
STHDCFYHSLTTCGLDLDNEDIHVMITDEATGEVLED

>RXN01251 TRANSLATE of: rxn01251.seq check: 4314 from: 1 to: 309  
MTQPDMSQILAAQQMQAQLQAAQQEILATTVVGNAGNGLVTVTMAGNGEVSAVTVDPKV  
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>RXN01263 TRANSLATE of: rxn01263.seq check: 84 from: 1 to: 912
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GCHQEVNETSPESCVYGDKNDFSVLVGDSHAGHWLPALEPIAEAQGWRLEVYTKSQCP
LISTAIKLGETFYAECYEWNEKLLAKLTGPSAPNHVIVSSQRYASANPLIDSVATGTVSE
GYEMAWNLSKDAGVSISVLLDTPRPQIDIPECVASNRDNLSECSVHRSVALGTEAHPQQK
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EAPFK
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>RXN01266 TRANSLATE of: rxn01266.seq check: 6088 from: 1 to: 1035  
MPKVSVVTGFYNRCEHLERTIESILNQTYSDFELIVFDDASTDGTASRLLELKEKYDDPR  
FRFIIHEENKGFVKGLSEAIISGAKGOYIAVQSGSDVSLPRRLELQVEFLDANPSVGVGG  
AIYNIQEDTGTRNPQRFEEKPIATFDDLLTSNPFTHGEVMYRLDLKYSIGGYRSGFTFAQD  
RDLWLRLMAKKADLGIIPDFLYHRYTLLDGVSVFPDKTIRQRCFSEAAVRLALMPEEEGAL  
VYSRLAEQPTAVVPIADRAVQGFVKPAAIRCLCYGAPETGLHMDARDYIQNPLRRTIVVV  
LISIIYSSRLIKPLQDILYKSIFKGVSIKPIKSSLVKFTRRIQKG

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>RXN01275 TRANSLATE of: rxn01275.seq check: 5209 from: 1 to: 918
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GIQTAIASVIGVGLSFVIGTYLDVSVWTFGLAMVIGLIGARVPKLR AEGIGIATTSIFLL
ASGFDDQQPLLYDRILEILLGVAVAIAINLIIFPPLRDQEANMVVGNLDRRMGEVLQKMA
DELAEKWNIDNADEWLEEINSINNDEKAWHSVRFVRESRRVNPRKIRIQEGRPQPTETS
YESNLTSIDEGIAHLRHLARTLRDTPIIDSDWGSSIPATVGIPYARCRSFARRSESGNRS
YRPPAL
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>RXN01276 TRANSLATE of: rxn01276.seq check: 3553 from: 1 to: 444  
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RSIROSDPGYGTHLDRDRDGIGCESRPR

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>RXN01281 TRANSLATE of: rxn01281.seq check: 193 from: 1 to: 762
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VGLSRSHYQLAAENTKSLVRMVPMTVPQGNPAKKLATDLNRNQVDELAAVSRGQTLT  
EEFEDRSSKAWNARHLDTLVELISDVNDNPYTLLGQQFPGASYAPAAAYETTPAMPNVSD  
PVNIVRNRITGNPNGSKMSVSFMGGTVRKGGWHVPNVHTSFAMMGNGIDLRDAFLES  
IQINAYTFMGGIEIIVPEGVFVICDGMGIFGGFEQSVDKAGALNPARLPSNAPT VHIKGL  
AFMGGSVSVTKKNI

>RXN01296 TRANSLATE of: rxn01296.seq check: 1595 from: 1 to: 1083  
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GQLDAANRMDAKPFMTLDLNNIDARQFPHEMCTRKHFNPQALAAAEELKYIAELKKVI  
ANQFQEPDVEIVKMLAATVTTKRMTAQNLEFFTRLVNTASSQFLKDEVNRRRLRSAQVFD  
PVQTQGADETPAEDEAVIEEVSEIVTTEEEIHGHSIVRAICCSEVSQAQEIIMRDAKSY  
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>RXN01301 TRANSLATE of: rxn01301.seq check: 6647 from: 1 to: 525  
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VSDTVDILIGFPVSPAQAESLRRGALSQSGGDIDDVVLHHFRDMKTMHSRHSRSGPFDGVER  
VWDEILDEVEDLGCTLPSSSIGWEEYIEGPATADTCDQLASEVYVQVCQAPVKSA

>RXN01306 TRANSLATE of: rxn01306.seq check: 7259 from: 1 to: 1008  
MTEWYVVLPAITILLIALSAFFVIEFALLAARRNRLEETVETSRSSRAALRSLNELTML  
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EMAPKSWAIAHPETALRTIAIPARGFINLFRPLLQWINKMANDLVRKVGETPVDRAAAGG  
YDIDLHALIEHSRETGALDQQAQISGIIKLDKITVGTTLTASPFTHSASATVAEVQA  
AAQRSGSLRVLIDAPSHLFPVHVRDTLGASPDKASKWSRPILTVAETDTLHQALEYM  
REHNEQISAVLSADGKTVLGVITWDHILKYLWPASV

>RXN01324 TRANSLATE of: rxn01324.seq check: 6882 from: 1 to: 300  
MSNSECHTHGYIEEKQRYLARLKRIEGQTRGIHRMIDEEQYCIDILTQISAVNSALKNVA  
FGLDDHLAHVCKEAADLGDELDAKLKEVSDAIARFSKA

>RXN01326 TRANSLATE of: rxn01326.seq check: 1197 from: 1 to: 366  
MAFPVTEKDILAAEETLGRRLPETLRERLLQNGGEVIDNENNDWILHPVRDDSDRKRLV  
RTANDIIRETESAREWDNFPENAIANDGTGDLIILLPDDDAFYIWSHEDEPLIETE  
LEDA

>RXN01331 TRANSLATE of: rxn01331.seq check: 1587 from: 1 to: 2397  
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VVISTLVFAAVALVWRLFFVGGWLVRRRKARIRRTIADDEERAENAESVAGEPAESSTNE  
AAESESETSERGIWRVIFDYMRDGGILDHRWLLPAAGAITGAWLIIDRAVDLLLSTEHG  
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NYVGAWPYVAAIGASGVVLAFLMSTPSVPVRIFAAALAFMGFMQLHPAPSTIVIMVLLW  
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ALTANSLKPFEEPPGWDNLNIVGGLHYSTGHRLIMPVAMFTFAAAGIGAAVIRLICLGPI  
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ENPDQVNDVDQAARDLNVGYFMISPWTFWDFQIPNFRQIDLLWQTPGVTPVCKKGDSVIF  
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>RXN01337 TRANSLATE of: rxn01337.seq check: 282 from: 1 to: 1413  
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PDARRWKNLHQGLTKNIDKHLANLLGPVLKWPAPHIRMAKFGPFALLPAKRLASAAFE  
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GTIHCDSDLQFRDIDAIILNQTPSQVLKLGTDNLAGLPQRMSTWKHGPSSYKVDY  
LLDEPIPWNSNPQVQATTVHVGGSSSEIIAFAEAEVAAGRMPEPFIIILCQQQVADPSRAR  
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GDITAGSALLRRMPTKIGEKTYMASASNAPGGGVHGMFGWAAQAVLADHR

>RXN01351 TRANSLATE of: rxn01351.seq check: 2597 from: 1 to: 585  
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 AFLESGGEAFGVITESLMKGELGHEKLELEIVPDMHIRKRRMAELGDGFIAMPGGAGTL  
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>RXN01362 TRANSLATE of: rxn01362.seq check: 8917 from: 1 to: 3654  
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 QVYEGLSYTGFIQEDLFEVAPHGKADKGSWMLPVSKADEVPADSFIEVDQEAAPGGGVI  
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 AISLIHPESHFTEKKAAPLRRGAYERLRRHWQFINELILFDVHDLVKYGVHVGAPQESI  
 NFLSAASLYHPQTVLDSFDHDSGNLPLGLKDDNGNWDRRPHKDRIQLVNADTLTVWKSIL  
 EDEQTPYLDTRMYYTVNTEAAAALEKLASAPRIKELGLQFSSGWNETTDKKKGYFDVWG  
 YPASWSDAILQGPLGVATPMIKQPNPTMKHNQDWSEIDFEAIPANFIPATAYQPDRQTK  
 PTYDADYGTWTFGDKQVPVADTFRIAWREMAATTGERTVYPSVIPPANHVHTVNSAASR  
 SNLKTILVGAQLGAILSDYFARSSGSSHIFNDIVRKIPLNFTSLEKQFARTYLRLNCLT  
 SAYAPLWEEITGEPWDVQVPLRNAEQRRAAQNDIDAMVALSLGISADELCMIYRTQFPVM  
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 EADLRAAYAKFENQLKEP

>RXN01379 TRANSLATE of: rxn01379.seq check: 3028 from: 1 to: 942  
 MSFADSILNVEEWISDHLYTNDDAKGASFSKRVREIKWKTTEDATQQSGPLTRFSSNR  
 LQLQHALSELDDATTAASLVASALGYGVPSARHAQRGSDTISYSSWVGNAGSVEFLAATP  
 AESFEENFRSLPLEPVAVNDKPQDITAALKVQGIFLSDTPPAFVVITAGKWVLAERETW  
 PLGRHLAIDISLVVERNDTKAQGEMQQTVALARENTERAADGTTWWEETIEQSREHAVK  
 VSGELRSVRESIEILGNDVLTRYEAKELSTAEIDGGELAKQSLRYLYRILFLLFAEASP  
 ELEILPTGTPEYDE

>RXN01390 TRANSLATE of: rxn01390.seq check: 97 from: 1 to: 657  
 MFRRLSPSNKTSSASSASSADTSYSVRLGRPEEPGYQPEPSYSEPYTDSDFAPAGAAAAA  
 AAVAPPMIAEQPQIVEDARRGTLDGFLLIIRAVIGVYLIVRGVFTFFTLGGSAGLAGLEA  
 EFAGYQWPEILAILLPSIELAAGVFLLLGLMTPVAAAATVATSTTTLHQVNTHEGGWGE  
 LSEPLMLALILTIVVGLQFTGPGKISLDSGRGWQSVHW

>RXN01391 TRANSLATE of: rxn01391.seq check: 3163 from: 1 to: 690  
 VAAVAFAAYVIDGGVEEASGTPTSSESSVAATAPAASETAAEYRAMLASLDVKGRAPGT  
 GYDRELFGPAWTDTVSVEYGHNGCDTRNDILQRLDDIQLREGTKDCIVTSGLLSDPFSG  
 ELIDFVRGERSGDVQIDHLVPLHDAWVKGAQQWDEQTRKNFANDPDNLLAVKGTNLNQKG  
 AGDAATWLPNTAFRCDYAKKIITVKDRYNVWVTEAEASALERQLDTCOA

>RXN01400 TRANSLATE of: rxn01400.seq check: 8655 from: 1 to: 1500  
 MAISVSMPKAISREELERAWLEVIERHGTLRVTFSTGMGGEVQQHRIDVGPWKWIDHAVA  
 PGESINEALRAVLNRQCSFYSPRSHSLCIIIDAHPRPTVIIGSDHSHVDMWSMLVIVRDL  
 AALDMELPVEPPLAFESHATAELLAAPPAPERIHQRWREILEAGGGKMPQFPLPLGDAISM  
 PERVEVRDIFGVNGLAIYSARARAQQVSSLALTISVMADVTAALADLPLRAVFPVHSRFD  
 QRWHDVSGWFISNSVIEVPDSDPHTAAQAVREAVSLGSYPLAELLEPWGGMPETPGMFAI  
 SWLDLRLPLVSIIDIGLQAQYVSASLRDGVMLWFIIDRSGAHLRCRYPDSLVAENVGR  
 WIDAIVAQMRAEAGTVNLQAGGEQLTLRHGTRADISEIAPLLARNAADPCELVDLEHALD  
 LLTHESSHFLAVVRNARGKIIAAMQLTIVPEFSRGGALHLHIEGPFIIPEYRTTDLDDKKL  
 RAWAVEHGRARGVKVEEVG



>RXN01403 TRANSLATE of: rxn01403.seq check: 3765 from: 1 to: 648  
 LVRGRGYFNAVDIYETSTQPDQEFPPDFDFTFSADPTPFQLSAVRADTGETVFWGREDTPD  
 LSALMKRVRASSTMPGFMPIITYIDGHPYVDGAVGETGGMLLQPAIDAGFTRFFVIASRPR  
 DYWRKEIGRPGFIKAALRRFPTIADLTIAARPALYNSVKQQILDLEKQGSAYVFFADNMNI  
 QNTEINLKKLRASFDAGMQQTRKDWPEIMSFLNQTR

>RXN01409 TRANSLATE of: rxn01409.seq check: 6984 from: 1 to: 822  
 WVDFPDVTARLGYEYMQLTTPHVDGPPFFRHPKADDDLVAALKKRAKDAGVTIPALLPVQR  
 ISWPEETQORVAAVRNIKRITQLAVDLEVDLTNTEFSGRPERSEDSÉDAFYRSMEELLPI  
 EKEGIKFNIIDPHPDFFVENGIEAWRVIRGLNSKQVGFVYVAPHSFHMGDQAEAILPAVGD  
 RLGAVYLSDTFDHKKSHGLRYITNPPGNAVVRVHQHLKIGDGDVNFEEIFSLLRSTGYLDR  
 EDALLVSNVFAEDEAADEVSRQLEKIRSLIENA

>RXN01422 TRANSLATE of: rxn01422.seq check: 4360 from: 1 to: 972  
 MAQRKLASVIGAALAASAVLVGLMTPATAQSSGSSSTDI TRALTSSGGVADSRAPEGGAK  
 VVVFSGDSTSGTNAPFRTDERGCLKGANNWADQLQSQLGLGAGDLIDVSCSGASINSDGF  
 HFSDEVRAHEARGAIGPNTTDIFVQLGKNDQWGLSNVNLQSVQTCLTDVFAGCGDAAVA  
 AGKMQDPNAVTAENYAERMKPVIDYLKYYAPNAEITLVGYQEYTARSGSQVCVRLGGTPL  
 VKNDAPALVSEFMNKLDMAIDGAAGILGVSHVDLRSATEGHDSCSNDPWVNGVFDARAEIV  
 GGPWHPSVKGDSTAGILRDRVNA

>RXN01434 TRANSLATE of: rxn01434.seq check: 1389 from: 1 to: 2952  
 VLGAULTSLVIPVLTRAEKEDADGGSGFFRRLTLSTVLLGGVTILSIIGAPLLTRMMLS  
 SEGQVNVVMSTAFAYWLLPQIFFYGLFALFMAVLNTRVFKPGAWAPVVNNVITLTVLGV  
 YMVLPARLHPHEQVGIFDPQIIFLGVGTTLGVVAQCLIMIPYLRRAGIDMRPLWGIDARL  
 KQFGGMAMAIIVYVAISQFGYIITRIASIADDAAPFIYQHWMLLQVPYGIIGVTLTLLTA  
 IMPRLSRNAADGDDRAVVSDDLQGLSKLTFIALIPIVVFFTAFGVPIANGLFAYGQFDANA  
 ANILGWTLFSFAFTLIPYALVLLHLRVFYAREEVWTPTFIIAGITATKVVLSSLAPLLSS  
 SPERVVVLLGAANGFSFITGAVIGAYLLRNKLGLLGMRS�AKTSLWALGSAAVGAAAABA  
 LGWLIQAVVGDFLLGTLSSVGYYLLNLAVLGVFFIFVTGIVLSRSGLPEVQNLGQALTRIP  
 GLSRFIRPNTKISLDVGEVSEQDFSTQLVAPSEFAATPVPPPMSAGIVRGPRLVPGAPVG  
 DGRFRLLADHGGVQGARFWQAREIATGKEVALIFVDTSGNAPFAPLSSAAAAGIAYEVQR  
 RTKKLASLGLAVAPNIHSEAYRNGCLIVADWVPGSSLSAVAESGADPRAAFALAEELTE  
 TIGEAHEMGIPAGLDNKCIRINTDGHAVLALPAILPDASELRDAKSLASAAEMLIDATL  
 APSDVKAMVTEAQGLATEDNPDYASLAMAMRTCGLFTEEPHTLVVKEKTPKPTRDGF  
 ASDYTVKGMMAIAAVVILVSLVAAGTAFLTSFFGSSTNEQSPLASVEATTSATPEPVGP  
 PVYLDLDQARTWDDGAGTDVTDVTDGNTSTAWTSTGGDGLLVLDLSTPARLDRVILTGTG  
 SDSNVTSTVKIYAFNDASPHSLSEGIEIGTVDYSGRSLSHSIRDSSKLPGQVESVVLVD  
 EVRSSQTSNTNPMQIAEVQLVGW

>RXN01448 TRANSLATE of: rxn01448.seq check: 5425 from: 1 to: 1167  
 MAKKKLGTVARLSELDKSLRNRLLRVRSRLLFIVHSAIGAGVAYWIAVEVIKHGQPPFFAP  
 MSAVILGLSGGDRIKRATELTLCALGVGLGDLIMQIGTGYWQIFVVVGLALLVASFV  
 SPAPLVSNQMAIGGILIATMFPPGDGGSIDRMIDAFIGGGVGILVIALLPSSPLDAGRHO  
 VANVLGIAASVLEDVAASLKAKDAAKLNNALALRRSQASVKNLETAASSGKEATTVPF  
 LWGDRARVRSYLRIAPVDNVIRNARVLARRAVVLTEDNDTVSDEQIHVIEEIIADIALRL  
 SDLYEHKKEISEALEIPELVNRLRLQLGSEVGEDIAEDRVLSAQVILAQRSIIIVDLLQIC  
 GMSRESAVAVLVPTSESPAYPPELWDDDE

>RXN01459 TRANSLATE of: rxn01459.seq check: 4910 from: 1 to: 810  
 MNSNGFGFSFGNDDDDDKNRNNDPFGLFGGNFGFGGQGGAGGPGGLGDILNQFGQMLSG  
 MGDSMNSPEAAGPVNYDLAARIARQQIGRVAPVKDSEKEAVEESLRLAELWLDNATQLPT  
 SGHRVEAWNPNWLENTLPVWKRLVSPVAEQMNKAQLENLPEEAREMMGPMSSLMNSMSS  
 MNFGVQLGNALGDLAKQTLTGSDFLPISPVGVSAVLPGNIAEASKGLNVAPQEMLVYIC  
 AREAAANASSSTCRGLSSASFPLRNTPSA

>RXN01460 TRANSLATE of: rxn01460.seq check: 5642 from: 1 to: 294  
 VPWLVERLVSSVEEYAVGLEIDTSHIQEAMGNFQMDNPDPERLQEMMNELQGMDSLPRIG  
 SRNANAVSRLETLLALVEGWVDIVVTQALSERIPSPPT

>RXN01471 TRANSLATE of: rxn01471.seq check: 6310 from: 1 to: 807  
MQSFKTLSESWPVDNVSASVISDGAHVFGDVRVFEELMSVTKLLATYGFVLAIEEGVFEL  
DSPMGPEGSTVRHLLSHASGVAFDKPVAEKGVGERRIYSSAGMDILADAVAAEAEMPFAE  
YLREAVFEPLGMENSELWGSAGHEARSTVADLTKEGQELTAPTILISPETLAEAFQVQFPE  
LIGTVPGYGMQKPCPWGLGFEIKGQKSPHWTGDLMPENTAGHFGQSGTFFWTVPGSGQVG  
VVLTDNRNFGPWAKPLWTA FNDEVWAE LNS

>RXN01479 TRANSLATE of: rxn01479.seq check: 8990 from: 1 to: 240  
MIQLVIGAAAGYVLGTKAGRKRYHQIKKGYEAAINSPATKSAVNAAARKAIANKLDPQPRM  
KEVKNLRTADGHEVLEQDQD

>RXN01484 TRANSLATE of: rxn01484.seq check: 1102 from: 1 to: 546  
VLGTAQYDGVPSRQFAARLRHAAKLWRLHEIQHVYTVGGKLPGRDFTEAEVAREYLIKEG  
VDPDLIFVSAVGNNDTVSSYEALDPEKLGRVLIVTDPNHSYRAVRIARRMGFDAPSPPTTY  
SPAKFPSIVYFLTLSHEWGGVVVQDVSRLGERVPDKVKHLCAQSKVCCALRGVHAMS NF  
GG

>RXN01485 TRANSLATE of: rxn01485.seq check: 9216 from: 1 to: 2052  
MNFSLVHLRENVRVSVTVAIGAGALLISGPFFTAHTAEATETYVLAESPEFYQDNVTDY  
TGQISSSDITNIQAAIDDVKASEQKVFVVFLLSSFDGVDPETWTQQALQANGGNNVLIYA  
LAPEERQYGIQGGTQWTDALDAANNAAFQALSQEDWAGSALALAESVGS SSSSSSSSSSS  
SSDFSGAWLAAAGVGTVAAGGGIWAYSRSRKKKTSATLEDAREIDPRDTNRLMQLPMET  
LEHLAQEELTSTDDSIIRGKEELAIATSEFGPERTRSFNRRAMNHSTGT LQKAFEIQQRLN  
DSIPESEAEERQSMLEIISSCGQADDALDAEAQNFADMRNLLINAGSKLDALTQKSVDLR  
TRLPKAQETLAGLRTRYSAEVLESIDDNVDLASASLDEAEVLPQAYEIESMPAGEQGGGL  
IDAIRHIEHAITADKLLAGVEHADENISTAKANVADLIQEISDEINEAGQLKQSAGADG  
ARADWASLDDAVRAASAALITASADA EKDPLGTYTELVDVDSALDTQLDLRATAADQAR  
QLRVFDQQLQSARSQIQKAEDLISTRGRIVKSEARHLANAQKLYAMAQQNRTRDTRAGI  
DYGRQA AVAAQRAKSAQN DITTYNNRHNSSGGGTGAIVTGMVINSILNSGRGGGFCGGG  
GFGGGGGGSGGGGGGGGFRGGRF

>RXN01492 TRANSLATE of: rxn01492.seq check: 9162 from: 1 to: 804  
VTTTLWAVSDLHAAVKANADPIENIQPKDPSDWLIVAGDVAERTELVLEILARLRRRFAK  
VIWVPGNHELFSRSADRYQGRDKYSELVEGCRKIDVLTPEDPYLTFGGVTVIPLFTLYDY  
SFRRPGEFTVEQAVQAARDRQVMMTDEFSIAPFVDIRAWCWDRLAYSIKRLSKINGPTILI  
NHWPLVVEPTYQMRWQELALWCGTRHTRGWAERYNAEAVIYGHLMHPGITNVNGVKHIEV  
SLGYPREWEHWSGQHVWPYPVMEVDNAG

>RXN01518 TRANSLATE of: rxn01518.seq check: 9224 from: 1 to: 474  
VAFMQKTSAGWLIATGGFLAAVSAILTWRFGSMTSISITVSITFWLLAVVCGFAGVKVQ  
GRLDEGLIGQDKSQMNPVTIAYLAMLGRACAWGGAIFGGVYVGIGSYVIPRAGELSAASN  
DLPGVIACALGGIALSAAGLYLERSCEAPPPQSGEAIS

>RXN01539 TRANSLATE of: rxn01539.seq check: 9014 from: 1 to: 2166  
VVTVAGNEKNKIREERVARRAQAVVEAEISLAAQASEQVREQAEAPDVNEQVEEVSVEVS  
SVQSLTQPKTLGQLHDPKKNVMSSSDLASIIGVEQQPVAYGESEEPETLRDVLPRRKLHP  
SEITPSYEADAGEQRSIFGESAPSDFDDLSDV EEFDTSHWVRAGQDDRSDDRLADEAGV  
PRSGAQDVADNEANLSGVDEQLHMREVHAQSFDPIDVAKKERKAAEKKYAKPPKSDNPYL  
ARDAKDAAARKRKINAHDNFAQEMAQAAMGPLRKGVNTQTVMAACTTAAVMWCMSPRMT  
GVNVDMKRKFNKDLQAKDTKLSKYVSKDFWKS KLTRDKTEKEAKSLSDAFMQQKTAIIS  
NRERIPMSVASAAQTVVRLSDQAYEAMREVDTDGQAI VDAKDVSQAQVAEDIDMVVKQGEE  
HGLKSKDIYGAARDIVGRMERDPGYAARFNETAFGTVRLGEQRRGMVISKTPTWQFPDG  
AGLSKNAGWFSVREPMGNAQNFADNLAATLATEMRVAGEQYGS DGVDRDVAGFMTATDVS  
ESGLASAKKLLP DFDTRGRSASRVRIAMAQRTQAAIKVLQDDGNQTAMTTEQVKEVQVW  
AMDQAEKVMQRDHPAILDKFVRKHGQTFGQDADAFVKSITMEKDTSS EYTDAMVRPQENR  
GSGRELAARRRVQAAQINQAAQLDMNVHDFRESNLPEERPANPYEAYVRETEAKTNDPQY  
GY

>RXN01549 TRANSLATE of: rxn01549.seq check: 789 from: 1 to: 1659  
VANDFIEPNADAPDAPDNGDSGSSGFVDEAKDKTRSA AQGLGYGALRVGFGTAALAANGAR  
SMGNLAKNLWTRMMGLALSAGTGISAATGGMITARVGAMLAGTGSVLSSVTI ALIVSMI

VVPAGRKDGIIELCEPPVTANPFTIDAGDMTENAKLVYGALSYLGMNDQNIAGVLGNFET  
ESGIDPTAVEGIFDEPNTIGPRKRAAWDKNFEPQPMGIGLGQWTAAGRTQMLLDFAADRNR  
DWHYIDVQLAFAISGDNESDRKVFLMVNDKNSSSNSPTAASEYFLREWERPADVAGNAP  
IRAEQASKWYAQMGGWQKNSTLGESVIAMADGAAAKSTARDEQDALNDCPEEDRTSGGNT  
SAAEAMVTISHPYLADSRGNDGTDIYRIHDEVLTGDPYYASCDRGVATAIRWSGTDDTF  
PAGPTAAQYEVVGTGSGRWEEIGNLATMSENDLLPGDVLLGAPNHVAMYVSNEVVVMDL  
GPGNAEPNAAIGHASLNDRSPGLDTLSLDGWGVNFKVFRNTQAETNSVFSGVQIPAGKEI  
GEMTNPTRTTPAG

>RXN01557 TRANSLATE of: rxn01557.seq check: 9051 from: 1 to: 816  
VRSSNPVFSSSLKETQRPQGGQNPYGGYDNFGGVYQQNVAPQKAERPMTVDDVITKTGITLA  
VIIIVFALVTFGVWLVSPGLGMILTIVGAIGGFTVTLVSTFGKKYGSAAVTLIYAVFEGLF  
VGGISLLLSGFTVGNANAGGLIGQAVLGTIGVFIGMLFVYKTGAIKVTPKFNRIILTGMV  
GVLVLVLGNVVWALFTGGASPLRDGGIIAIFSLFCIGLAASFSLSDFDAADRLVREGAP  
SKMAWGVALGLAVTLVWLYTEILRLLSYFQNR

>RXN01574 TRANSLATE of: rxn01574.seq check: 7504 from: 1 to: 1035  
MSNKRIGVVIVSYGHEQDVANLVDTFADQLKTGDRVVVDNRKPWVLKDAVGERLEKHGA  
EIIINHNGGFAAGCNVGAHIVDDVLLFFLNPDVIDDPTLFNSLRVDEQWAAFPYLL  
LLPDSTINSAGNALHISGLSWVTGLDEKPEVGSSEVTDISIAGACLAVRVDWKKRLGGM  
EELYFMYHEDTDFSARLLLGGRIGLLHSAVYVTHHYDYAKGDYKWIYIERNRHLVLLSVL  
PLPLLFVLIPQILGVNLGLWAIAAKEKRVGLKVKSRLRLIRDLPALFKLRRSTQELAEELT  
PSQYLAKMEWRLDNPNLGNIGSNKIVATGYKTYKLCMSILKLLA

>RXN01589 TRANSLATE of: rxn01589.seq check: 4956 from: 1 to: 1020  
MVEQIKDKLGRPIRDLRLSVTDRCNFRCDYCMPEVFGDDFVFLPKNELLTDEMARIK  
VYAEELGVKKIRITGGEPMLRRDLVLIAKLNQIDGIEDIGLTTNGLLLKKHGQKLYDAGL  
RRINVSLDAIDDTLFSINNRIKATTILEQIDYATSIGLNVKVNVIQKGINDDQIIPM  
LEYFKDKHIEIRFIEFMDVGNNDGWDFSKVVTKDEMLTMIEQHFIEDPVEPKYFGEVAKY  
YRHKDNGVQFGLITSVSQSFCSTCTRARLSSDGKFGCLFATVDGFNVKAFIRSGVTDEE  
LKEQFKALWQIRDDRYSDERTAQTVANRQRKKINMNYIGG

>RXN01590 TRANSLATE of: rxn01590.seq check: 4837 from: 1 to: 6447  
WGQKDHWGKAPLGDHDAVRIYRQAEALMKQRAANNKGLDLNDEATYGAIMFASFDDAFAA  
DAEAHGCVHRPQFAKVTNRNINLNSPQYTAIKSSYDALVQQDLVAQQQQAQALQQAAYEQE  
QAAIFQARDQATFQAEQTLAQESVRQSEGVLPLVIDPMESYFREYAFYEGVEMFGTWGTH  
VDAGVSQFSTSDGRAIRALVDEHLATYEPVEQRGSTQAFFASVNAFAEVAPHAAPMFA  
IAREGEGSKGYQALRHRFDKMGVTAIGPNGLPEGPDLGGRRLPISPYDPRWSDREVVRVH  
GTKLLSLSESVGMIRDLDLATIHLDNDVYEGTHREDDTKGGVRPLTQWVNGEAIWRT  
ITENDQMRLPNIGQFMATAKEYRAASWLRAGLIDTADVASQKIDPNKVMSEDEGIARSEAI  
LTYLSDEGVDFRIEPPREPQGLKVRIEGTRIDIRLTDTRANEQWVGRVYDSGTVIKYSAE  
QTAEERLRARERMENGDTWTPATDYEPSPTTEVVDLVKFALGREVERQDGKGLVGPVNAR  
HPRALEQAQDAYFTKNRSAFMVREGLSIVQDARDRSAGPGKWFNEAKASEWLGNNIALT  
RARVAEELGVEELIALSAQYADDPDFMPAFAGEDELMAIKQDYWAMLRGEETDLLNPGVN  
RDDYMAAIRDGDHEQIAAMTSAMNAVTVEDRVQRHAALVLDVYGVTEPDVPTGLRFNPV  
TVAQHMPSAKSLWSNHDDIIAALRATSITGDELRGDEFYNDVINQQLLKFNPEAQKMN  
NPDLDPQLARFGTVIAETISRNGADVVDIAVDDNGVVRWTAQRRVGAKDSRAVDSKGQVR  
GERTRHVQGEIGQIFTRGEHGEIVTKFNGGENYMFAPGYTASVVPQKPGETKSLEERTKL  
KGYEQVMSEALVYRVREDLMFTERSRVGATTSINSAYKRLYDNRFPVDFERSAEGLSD  
EWRAALLETASLRVRYDNSIRDGANVMEDIRAQQRGFARNDNSRDALVLTGGRNISVLD  
VDAGKGFDFPMTGMAANQGSVRYLLPSAKVGADGMITPGDPADRVPVAAHPESWAMGFD  
PHDRQNMTFSNIMQASAVTGGARTAMIQLGGWNFEDGIIVSADFANTHVIRDTEDEMRPL  
VAGDKLSDFHGNKGVTALVVDPMASDADARAAGLESEVAFFRDNPDLVVMSPPFSAISR  
NGGTARELMTNPQDVVFRNNDGSTRVQPGASGDLNFIVTHMAVDAKTNVYDEEAVREGQG  
RKASSQLAWVLQAQECHEIMEHFYGNVNSALANFQEYLRVTGLDVTPYGELEGEFSSENE  
QRNIIEMPSIYDENGELNNRVNRAQVREAFVEQISRAGGVMEIPFQLQLRNGAQLEESPN  
NPDYMYQLPLLSPHLRSDDELADGSTSRHEYTRYMAIFDTCYKLAEQAKIDALRQEEAQ  
HGTLPRAAEKRLSESQKFEVDQAQKKVQASFDGIANDIVASRIETKNNVFKDGFMSARQSH  
SATAVWTGDPRLSVDEVAMNSSMARELGLVDNGYAMVWRDPVIRDGVRVYLRVVINDDLH  
GVAVNPVSVKSFDFGDFGDSVGLVGNLPKKAHEEALSRLTVEANMLDLGDGKRMEDGTMF  
YGLTLHDSLDVQVAQHHPAMAENMKVIVSELNRYQREYEAGEISREELLEVNRAMHDDL

NEHYAQAFANRDGLVTLRFDGMENHMASVAQCFETGAKGSPGKLKEYATYIGADPAQGFK  
 DVGQPTPEALRSHYEGSQKATAIKVLTFTGVAGKKEQEMVALCRNLGLTKEAMAASAPAQQ  
 SILQAKHDPIDALYRAETLMGPVGDLYQGRKMRRGENEQGRYEWVVRDENHQPIQATKD  
 EWVQQYMEMYADDKGMGVSVDQVEKIAEEFSDEQGYMRVLSHDELPTEIKPLALDQLA  
 YGDKKNRFDLLCEMAKQQVNIYDGDYDFAPRVVRANMKAMEDAARFGIPDVEIQSISAQ  
 QSLASFERVPPQSRGFRIERRVPAEVGTGIAAPAPLPDAGVQGNVQQQVPATPPVMPVTP  
 PAQQPVSPAQTDFRGVGGPLDQGGKIGNYGHQGPAMGAQQPVVPQQQNI PPVHNPPVQNS  
 VPPTPVVPKPGTGNPFTHGGANNQFMGRFDTSRYNQQEPPQRQDGGFEL

>RXN01592 TRANSLATE of: rxn01592.seq check: 5848 from: 1 to: 1302

MADNFRDRSRDNRSSDRTPRGDRGDRGGYRNSRGNDNRGNRQNRDGESRDRGGYLGDRR  
 DNRSGEYRQRDDRRDRDRNRSDRRGGYRSDRNFDDRNSNMRDDRRGGGDRSYRDRSD  
 RGYRSNDRYDRNDRDRDRNRDTRGGDRGDRRYDRRDRDRDRDRDRGGGQGRPGGDRRH  
 ANRAGAGRDRQDRSLHPQRAFREERLNRNLNEPDLPGDIDIKDLPLVLQDLKVLKDN  
 ADAVAKHMIMAATWLADDPQLALRHARAADKDRAGRVSVVRETNGIAAYHAGEWKEALSEL  
 RAARRMSGGPGLIAMADRCERGLGRPEKAIELAREEDLSSLDQDNLIELAIIVVAGARHDL  
 GQHDSAIVELQKVNPSLKSTGTFHSRLSYAYADALVLAGRGDEAREWFQHAATLDEDGYL  
 DAEERIEQLDNGNN

>RXN01597 TRANSLATE of: rxn01597.seq check: 4048 from: 1 to: 1182

MSLFNRKADLPGLQGATRICTPQGGKGLKRLSEGDLAIIDAPDLRSTFAQRLLAAKPAAVL  
 NVSRFTTGSVPNFGPQMLIDGGIQLVEGFGQELLDGTDGKKGRLTEDGQLFYGERLISN  
 GSVLSGPAAENAFADAQQSLLDRMEAYFGNTIQFIHSEAPLLIDGLIPDTGNAIEGRKV  
 LIASPGDNHRSRLKELRSFIREYDPVLIGVDGAADTLVELGYKPALIVGNPTGIGADALR  
 SGANVILPADPDGHAVGLERIQDLGIGAMTFPSSVNSSTDLALLLADFHNPMIVNVGGP  
 VTLDGVFENREDSIPAALLTRAKLGTKLVGDSVIASLYTVRSSSNLGMWALLAILVLA  
 VVIVIAGTAGSGSFTDNLIDTWNNSFALTVOGWFK

>RXN01598 TRANSLATE of: rxn01598.seq check: 5340 from: 1 to: 963

MAKRRRGRGAATFAALGFGAAAGIAFGTYVLAPNLPENIDPNAPTSAEELVEAETLAEVNAV  
 QADQADSIIHDHIVEDVAGTLTDRPVLVMRTADAEESDVADVSWLLQQAGAINAGSITLE  
 ENFFSQDGADQLKSIVANTLPAGAQLSETQLDGPETHAGEALGAALLNPNPETGEPLASTAE  
 RGLLLNVLRDNGYISYEDGTILPGQVIVMITGDSGSGDGAFAAETQSLFARALDAQSGG  
 VVVAGRIHTAADTGVIGRLRANPDAAENVSTIDSVNRTWGKMATVLSVREELAGRSGAFG  
 SAASADAASPSLDGTAAAPAQ

>RXN01618 TRANSLATE of: rxn01618.seq check: 189 from: 1 to: 384

MIIIGAVFAILAVLLHVFIYFYMESFAWTSEKARGVFGTTEIDAENTKEMAYNQGFYNFFL  
 AVIAGVGVAFLFAGSTGIGAALALAGTGSMLAAAVALSSPDKRGAAFKQGTFFLLAVV  
 FLVIGLLV

>RXN01634 TRANSLATE of: rxn01634.seq check: 2339 from: 1 to: 552

MAVGQETDLLNAMETLAGVPSDLVVTEILPDTTSYDNFEFFEVHNTGSAPVTIGEGETTF  
 AYSFDDSDATSRDKALDLGGEVTVDAGETIVVWIEYSSSTVDTAAFSEQDFRDFYGMDS  
 ARIFRATGQAGLANGGDRGIRVLYNGEVSGWSHYPSDSAQVKGIDFALPKVGEQASIAS  
 AHQN

>RXN01635 TRANSLATE of: rxn01635.seq check: 47 from: 1 to: 741

LIPGGLDTPPEPEAPEDSLFEGRTPPRDASTRLILTELMVNSTNMGSSDGFYVEITNTT  
 AEPIDFSDYTLNLYLPQDEFTNTNEAVWAAEPGDVIIQPGKSLVFWIKNGPNDEATAADF  
 NAEYGTNLEAGKDLVEISSGGMANGTARGMQIQTNTGHIVNRGFYNMAGASDVKANEGHL  
 FAVDESLLKQTLVGSGAPTPTVYTSQIPNPLSAVIADSSVPLITDNTATSINPAEPFT  
 FAFKYHR

>RXN01638 TRANSLATE of: rxn01638.seq check: 2292 from: 1 to: 900

MSTQITITVLETATIFDGPETIYRYDLAAEGILDGWAHSAVLQVQKIAGENWPTVEIV  
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 LVSILVGSIAGIWVISGFTGPVDSRPVDKVAEISTQGETSISNQPPQPTVLVTEDLLIE  
 APFGFEMRSDEQSRYLEGPDPNLRHVGVDPLHGADAALVAEELRRLITEDPSLEEIPAG  
 EWGEKTTIDYRETPGDGSHVLWVTFWDTDRQLNVGCHSKAAETLVHKAQCRNVIEHLTLK

>RXN01647 TRANSLATE of: rxn01647.seq check: 6883 from: 1 to: 1170  
 MGDVIRMIHDPLGRRRRALVFGVAVCVMLAVGSLALAIIFRPAKDPADAPLIRSESGALFVQ  
 LDGSHVHPVANVASARLIVGEPVDPVNASDAIIAGMPRGVPVGVDPDAPGLFSSTEEPEQDW  
 FVCQDVGTGDLHITVPRGGLGPTLIAEGNGWLGASKSETGEVTWNLTADGRRELPAWGS  
 EHGRIMRRHLGISEDTPRVYLTTELLNAIPEHDAVRFPAPLPELVDASTRNWLRLDGLA  
 EITPLQRGLLDAGSGVFPDPTALLGVHEETANTLTLPQTVSWQDLGGFACADGEGQI  
 GFLETLESGVALSGDSRAKSFSTNAGGAVGVDSGFGYYVVSDFGLMHPVSTGESMVALGI  
 TDVQVVPWSVLRLLPQGSSELAKETALPTY

>RXN01658 TRANSLATE of: rxn01658.seq check: 7999 from: 1 to: 1833  
 DPQILSPTFTQQQLRNIFYGFPDQLAMDRFEVDGKLRDFVVAARELDPNALQQNQDWIN  
 RHTVYTHGNGFIAAQANQVDEVARDVGSTRGGYPVYTVSDLSQSNARAAESEDAAELGIKV  
 DEPRVYYGPLIASATDGADYAIVGDTGDGPVEYDTSSTYTYEGAGGVDIGNMVNRAMFA  
 LRYQEMNMLLSDRVGSESKILFERDPRSRVEKVAPWLTTDSKTYPTVIDGRIKWIVDGYT  
 TLDLSPYSTRTSLTEATQDAVMPDGTPOPLITDRVGYIRNSVKAVVDAYDGTVELYEFDT  
 EDPVLKAWRGVFPDPTVKDGSEISDELRAHLRYPEDLKFVQORDMLAKYNVDDSGTFFFTNDA  
 FWSVPGDPTAAEGRQELKQPPYYVVAADPETGESSFQLITPFRGLQREYLSAHMSASSDP  
 VTYGEITVRVLPDTSVTQGPQAQDAMMSSDQVAQDQTLWRGSDNLHNGNLLTLPVGGGE  
 ILYVEPIYSQRKDQASAFPKLLRVLVFYKQVGYAPTIAEALSQVGIDPKEAQDIEEVDG  
 TATTPSTDETDTDTDPATETPTAPVSEAGIAAINDALSNEAARDSSFEYGRALDAL  
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>RXN01659 TRANSLATE of: rxn01659.seq check: 8569 from: 1 to: 546  
 VAGVAQRFVDERIHVGLDSMPEAVTAVWMESDWVLAETIKGSTPSDWEEILRPLALLTDA  
 SFTLPPRSTRAQTLDLKHLEPSRLKPEQPEKPAFTPNASEEDLSQPLVIRPEEPLQMPVR  
 GVQESRGVVEPRSLGADDVESIAEGDPERPSDLYGTRVLRDLNGQSSIFQDSTDADEPPK  
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>RXN01663 TRANSLATE of: rxn01663.seq check: 7844 from: 1 to: 858  
 MEISVLIIAALILVAGIVLWRADSSKQAAKKAESPVGSVAPAPVLVEEEDPEFEPELDP  
 EPEAQPEPELEVAPRFAPEPVQDLEPDQAEDIYFDDSPELDADVENALAEELTEVEDYPEE  
 PVQSEQPQAPATAEVAADDEEQRGVDKHSFLSSLPQSQRERRRNWAAKHFFDIKEDAFLT  
 DEWSRGAASTGAVARDVVSGMAEGYETHLVDLAGVPVMMRRGITSDVVIDARRGEQPAD  
 PEREESDDLVEIDTVSGFRLLSTWRGLRSVLSTSAFTSVWIPCQKL

>RXN01669 TRANSLATE of: rxn01669.seq check: 9448 from: 1 to: 915  
 LYEIVFPHSHDTADSIDDAMEANSEGIRALKFSLVLMLLTTVLQAIIVSFSGSVALLADT  
 VHNLSDALTAIPLWIAFILSRRAATQKYTYGFNRADLAGLFIVAMIALSAIVAAWQAID  
 RMINPRPMENIEWVIAAGVIGFLGNEAVAMYRIRVGKRIGSAALVADGVHARTDGFSTLA  
 VVAGGVGVFLGFPLADPIIGLIISAMIAITLLVGTIRSVGRRLMDGIEPELVEKATHAIWH  
 VKEIESIDRLRLRWVGHRLHGDTVSTSTSSLSSEATAIALEAELSVKQHLPNVDEMTVTI  
 TPSKP

>RXN01672 TRANSLATE of: rxn01672.seq check: 2451 from: 1 to: 342  
 MASREVSITRISPLATFRVALAMSIIGLVAWIICVTVLYFGLNVAGVWQNFNDVIGGVGA  
 EQTITFGLVLSISALLGAIGAITVAVLAPLCAIIYNSIVDLFGGLQIQLEQEV

>RXN01694 TRANSLATE of: rxn01694.seq check: 8929 from: 1 to: 900  
 MQKITPNIWCGTAEAAEFYVNAFSEFPFGGAELVTTVKYPEAGLLDFQEPFAGKTLTVE  
 LAISGFKIILINAGEEFTPNPSISFMVNFDAVRDENAHEHLDAVWEKLHEGGSTLMPVDT  
 YPFSEYYGWVQDKYGVSWQLMLSRPEEKPGPAVIPTLLFGGAAQNOAGPAQENYVEVFPN  
 SQLGDRAPYQQGTGPATPEALMFSQFQLDGQWIFAMDGSGVEQDFTFSEGVSLMYEAHQE  
 ELDAIWNALSAPAEACGWLKDKFGVSWQIVPDNMEELMAKPGAYEKLLAMKKINIAEF

>RXN01696 TRANSLATE of: rxn01696.seq check: 7405 from: 1 to: 1179  
 LSTPIGLGLPPTPPVLAARRKTRQLMVGVGVGSDHPISVQSMTTTKTHDINGTLQOIA  
 QLTATGCDIVRVACPKTVDAEALPIIAKKSPIPIADIHFQPKYIFAADAGCAAVRVNP  
 GNIKEFDGRVKEVAKAAGDAGIPIRIGVNGGSLDKRILDKYHGKATPEALVESAMWEAGL  
 FEEHGFGDIAISVKHSDPVLMEAYRQLAEQSDYPLHLGVTEAGPKFMGTIKSSVAFGAL  
 LSQGIGDITRVSLSDAPVEEIKVGDIQLQSLNLRPRKLEIVSCPSCGRAQVDVYSLAEV  
 TEALDGMVPLRVAVMGCVVNGPGEARDADLGVASGNGKGQIFVKGEVIKTVPESQIVET

LIEEAMRIAEMDPEVLAAASASGMKAEVKVTK

>RXN01697 TRANSLATE of: rxn01697.seq check: 2521 from: 1 to: 957  
MFQGLKELTAAKGRTLLITVTVGLIAVLVTFLSALTAGLGHQSVSALKYLAGDNELILAD  
SGSTTSLASTLSDQAVAQLEDEGAQMLWQVRDRVADTPTMLLNSPDLAPGEVSLPAELAD  
SELATAHDVVDSSNDLYLDHLPVVLMTSDLASLAQVRGVTGPAGAFASDVALPSDTVAL  
SGSERWNASASYQGEQMSLNLMIWMLYVISALVLGAFFTVWTIQRLRGIAISSALGAARR  
VLIADALGQAIIVLGITAGTLITVISAFMGMDAMPVVISSSTTLFPALILAAAGLIGA  
AISLGPILRVEPRSALMNA

>RXN01701 TRANSLATE of: rxn01701.seq check: 3619 from: 1 to: 372  
MLSHEEIVAIADLLSKRYGGVQTLSDVEQLNGSGTSAVLRARVANSFLOQQRSVVLKYV  
PSTGDVFDSDSALVREIVSYQFTTSLSEDVRPGPVILAYDIDKRILVISDSGNGDTFADLI  
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>RXN01703 TRANSLATE of: rxn01703.seq check: 3504 from: 1 to: 1113  
VAWPSNAKEKLFHWHYWWQAHYLDCLVDAARRRTTKARRDRIRDITIRGISVRNVGKLT  
NRYDDKAWLALALGRAGKVRKVRTPKSLPSLEQNIVDGIDSLTGVLWRSGETFYNVPS  
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IGACLEIALKLREAGLTTTVVDHWSADKAEDSLKYFAHIHAVVQAVSRKMTNFHGV  
WDTGDGDGGLFKGILVRYLADVAILRPDDSPNRETCKIAARLVLESAESVWNRLEVDG  
LPVFATDWTDDARLPQNFGLSSSSSLDLVSVVVRVDERDLVQSLGWMLMEAAAKVAEELE  
NNGNSYTGRSR

>RXN01709 TRANSLATE of: rxn01709.seq check: 6991 from: 1 to: 432  
VFEQALGLTTLAQTAGAGAAGGLGFMAMALLSAGMRSGVDMILNETGGEKMLAQADLVIT  
GEGRIDAQTLGKAPTGIARARAKGIPVLAVCGQSLLGPAISNELFEDIYSFTDFESDI  
NECIRNPLPILEGIGFNIKHHLS

>RXN01711 TRANSLATE of: rxn01711.seq check: 1589 from: 1 to: 1158  
MLLMAHRFFVLAINGAVTDDFTTVYSALRRFVEGIPVYNEVYHFVDPHYLYNPGATLLLA  
PLGYITHFTLARWMFIAVNLLAIVLAFGLLTRLGSGWALRSMVWPIAIALAMLTETVQNTL  
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GILTPVIFNAVAVFLVPGASEYVTRTMPYLGETRDFANSSLPGLAIYFGMPTWMEITWFL  
IFGAMVGLAVLALLRFRNTEPYFWAATTTGVLLTGVLFFLSSLGQMYYSMMIFPMIFTLLG  
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GDIRAKGTPSSPITTDPTHDLERTA

>RXN01721 TRANSLATE of: rxn01721.seq check: 7358 from: 1 to: 1023  
VLVDRFGRIARDLRVSLTDRCNLRCTYCMPEGLEWLPTEQTLNDAEVLRLIRIAVVKLG  
IRQIRFTGGEPLLRKNLEDIAGTAALRTDEGEKVHIALTTNGLGLDKRIAGLKEAGLDR  
VNISLDTIDAERYVSLTKRDRLSGVLASIDAAVAAGLHPVKINAVVMPGPNVNEVDIVPLAE  
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DELAQLWAGAMWEKKPGHGIDDEGLQPDPRMSAIGASPYQ

>RXN01734 TRANSLATE of: rxn01734.seq check: 3461 from: 1 to: 534  
MTDPIEQAFERIRAEAMRRNGSVPLNKNDAFRPPAPKGGVEKRKKGRASGLDGRQKRY  
VRGAESLGSVLNKEIQRRGWGKDIAGGWVTSNWEELVGAKIAQHTRVEMIKDKKLFITCD  
STAWATNLRRMQRQILQVIAEKVGPNIITELRIFGPQAPSWRKGPLHVKGGRGPRDTYG

>RXN01742 TRANSLATE of: rxn01742.seq check: 7621 from: 1 to: 504  
MQEKPEMPAIEVIRSAKRTKTQARIVDGOIQVRIPARMSKAEKEKAVGEIVAKLKRRTQ  
SAVSSDADLIERAHKLNKTVLEGRARVESIRWVSNQKGRWGSCTVATAEIRISDRCLKHVP  
DYVLDAVLVHELHTFTFIAGHSAEFWEWADKTPLAERAKGYLEAYQRWG

>RXN01754 TRANSLATE of: rxn01754.seq check: 1605 from: 1 to: 1941  
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AGTVPQSLSGTLQIPAEFGGVVEFYDGRFLFHLRLLEVNDRAHIEVPLQSVVPEDGRA  
TFWLRAMLDPVNNQWCYEEQEVRFLDGNVTFEAGATINPAVVADYFPSVLRALTIYVPENP  
SEAVQEATLEVATSLDSVYRRSGLDVNVETLPTGTDAPPTRPQDFERQIVLVDEATESNT

QKTELVPNGQDNAFLRLNGNADELYDQARLLTDTATLPLAVDTEVTASGFGDVPNLSTDVA  
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DTVLDSLTTDDTGIIDREFNVPGLDVNRYTAIVVEFTSTGDVNCGVTQPVGLNIDSLSLV  
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WDEAVASERPTIFIDAAGAKTDQVPSYLAQQGQTLTLEITSKNDQNADGEQLTRSLQTNAAL  
VVGSIQAVWDADKKRTIVASSQNDPPDLDALISWMGEDRERWSDLNGDLIVKVRDREP  
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ARRQVEELGVRGFKFHPSPVQGFDP SAFPYPLWELLESFGLPCVFHTGQNGMGAGLPGGR  
GIKLRFSNPMMLLDVVAADFPNLTIIMAHPSVPWQDEANSIATHKANVFIDL SGWSPKYFP  
ESLRQSNNVLSKKVLFGTDFPLITPEKWLAA FANLPLKDEV RPGILKDN AVKVLGLAAS  
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>RXN01767 TRANSLATE of: rxn01767.seq check: 5940 from: 1 to: 465
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IEQIRAWLDELPGSLFNNLRSTKTKGYIELFETYLD

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VTGLLGRAPHSLFFPIGFYTPMSTITTTDTPLYTALPHTRISDAELLTPTTTTVHEILVY  
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DNEHNTOLHWSGVNRYLMOALSRTHE

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>RXN01771 TRANSLATE of: rxn01771.seq check: 4536 from: 1 to: 702
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MHQAGQLINDPSQGLWRTSALRSPVARVGHAVLRQRAGEISRMQGREFSRPGDQFRQVDL  
 RRRLIQVHPQSIPTADAMAVTITMALTAATIDPVKFVADSQNPDEEIYLAAQIALREMVI  
 AMPLEDFIGVRIDLEPVLVAAQAAAKNVGVEVSSILLKDLNLPQEYSGALQESIVAKIQ  
 AETDLERARNEVKTTRARLASAKVLEONPILAKIRMIEALPPGSTIEVREGDSKA

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>RXN01774 TRANSLATE of: rxn01774.seq check: 7116 from: 1 to: 726
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HTDLPEPSIKDSGLISAIGSSAGNTNNPALALETQMAYHLVLAMHHTDVATWHKVVTKNI  
TESAAAQDAVEHSAKYDAVYDAAQLMGITVEEGNVGSIAIAFSTARADGKSDWCVSGIS  
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>RXN01787 TRANSLATE of: rxn01787.seq check: 474 from: 1 to: 693  
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QPPVDQLGSFLHGLETSVADLGVGDRVFLPRFSTFDKKGRLGRYRIHTVLGFAENDPFNPMT  
SSERFKGKPYVDMFDNQDNAFNPNSYITTDTVRIVVDPVPETNPDEKAGR

>RXN01796 TRANSLATE of: rxn01796.seq check: 303 from: 1 to: 774  
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QTLTPAQAGIEYTEPTLTFLKNSTQTGCGFASASTGPFYCPSDQDAYFDLTFDQMRQFG  
AENAPLAQMYIVAHEYGHVQNLEGTGLGSLSNYNDPGADSNVAKIELQADCYAGIWANHSS  
EGPDPLLPITESELDALLAASAVGDDNIQQRSGGDVNPESWTHGSSQQRKDAFLAGYN  
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>RXN01809 TRANSLATE of: rxn01809.seq check: 4529 from: 1 to: 1176  
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PRDAGPLGELSSDNHVEAEDTGTSTEEAQAEGSHEESVDNPRDFTGTATAVRSFRPR  
LPVPNALRPGPPIRTQPAVNTDIDDGGQENTAGATAADVAGVFFGTHFELAFGQVDVHR  
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NVEMDQDIADVVDNVDEQVVVTPAHADDSVAVVAEQVVASEPTPEPVPKVEHVMSVDLAG  
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EDILEEIVGEIRDDETDLDEALIAEQSDGSYIISGKLTLDQFQRYFHVIEPEFEETNFTTL  
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>RXN01813 TRANSLATE of: rxn01813.seq check: 1579 from: 1 to: 666  
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LATANGEELTEETGSLSSPRVLQDGKDVGNISDWITTVLAS

>RXN01815 TRANSLATE of: rxn01815.seq check: 2232 from: 1 to: 792  
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EVLNAGETFGGIFGSNATEADIRTDAPQYRIYAHGELIDSPASAVDYWRDDLVSFIIGCS  
FTFEHPMVQAGVPVRHLEAGRNVPYETSLACRPAGSLSGNLVSLRMIPASQVADAVRI  
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PLAITHAPGHMLITDAPDLGFQVP

>RXN01825 TRANSLATE of: rxn01825.seq check: 7373 from: 1 to: 270  
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IPFMADLGAWNYGIGFGLMIIGLLMTMGWR

>RXN01831 TRANSLATE of: rxn01831.seq check: 8077 from: 1 to: 462  
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PRLTLVVEGPLAGSSIEVSEDMTMRSPCTFVVGDDYASGMHARVFKRGSEWFVEDLDS



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>RXN01834 TRANSLATE of: rxn01834.seq check: 6044 from: 1 to: 702  
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TGVGFLTGGFFGVGGFAIVPALIFALGFMSRQASATSLVVIIVNSAIAMGFRYSDLASID  
WSVISPIIIITTVLGAFSGVKLAKVKASSLQLGFAGFLIFISIMGFQNFDPDF

>RXN01846 TRANSLATE of: rxn01846.seq check: 4543 from: 1 to: 282  
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GFVNVMRKLFGGQSGQQIQWFTTILLIIVGGALP

>RXN01847 TRANSLATE of: rxn01847.seq check: 7155 from: 1 to: 735  
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YRLSGGTKLPKSGELPTMKARWGTSISEALIDVNQLVIDLRSGTYQQLGVRKDAVTVRV  
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LTLVV

>RXN01874 TRANSLATE of: rxn01874.seq check: 6539 from: 1 to: 348  
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IWRKTIRHNFTPWVSGIMAVSLPIIVTGILLNNGYVAATGLAAYVAAWLLAMVGWG

>RXN01875 TRANSLATE of: rxn01875.seq check: 5040 from: 1 to: 846  
MRIAVTGATGSLGGHVVDSSLNKGVAASDIVAIRNEEKAADLKARGIALGVATFEDEAA  
LTAALEGVDRLVFISGSEVGQRVAQHTNVINAAKAAGVTFIAYTSLNLGTSKLALAPEH  
IATEKLLAESGIDHALLRNGWYWENYESSIGAAKATGKVFGAAEGARVSAAARKDYAEAA  
AVVITSDNQAGKVYELAGAPALTYPEIAAGIGEVIGSEAEYVNLVVEEYQNALEQAGVPA  
EFAALLAGMDPIIAEGALYSDSTDLQDLIGRPSTTSIVEALSS

>RXN01877 TRANSLATE of: rxn01877.seq check: 5596 from: 1 to: 1071  
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DIVSPSLDSSISDEDTVTVRTAKQVALVVEGQIQNVTTTAVSVEDLLQEVGGITGADAVD  
ADLSETIPESGLKVSVTKPKIISINDGGKVTVVSLAAQNVQEALELRDIELGAQDRINVP  
LDQQLKNNAAIQIDRVNTEITETVSFDAEPTYVDDPEAPAGDETVVEEGAPGTKEVTRT  
VTTVNGQEESSTVINEVEITAAPATISRGTKTVAANSVWDQLAQCESGGNWAINTGNNGF  
SGGLQFHPQTWLAYGGGAFSGDASGASREQQISIAEKVQAAQGWGAWPACTASLGIR

>RXN01879 TRANSLATE of: rxn01879.seq check: 6847 from: 1 to: 933  
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SVTGARGVPEDASNLAWRAVDALVKRRAEKTPLSAVSLHISKGIPVAGGMAGGSADAAAT  
LRAVDWAGIFPGEDTLLEVAELGSDVPFCLLGGTMRGTGRGEQLVDMLTRGKLHWVVA  
MAHGLSTPEVFKKHDELNPESHMDISDLAALLTGNTAEVGQWLHNDLTSAAALSLRPELR  
SVLQEGIRSGAHAGIVSGSGPTTVFLCESEHKAQDVKEALIDAGQVYAAATATGPAASTA  
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QRRDRIRAYLNLREDDATCDDIYSGYLKAYEQNWTAYPDAKGVLDRAVATGAPVGILTNG  
AAPMQQDKLDRGTGLGLPELVMLAASLTDSAKPRPEMYARALTHLGARTATIIIGDDWTNDV  
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>RXN01899 TRANSLATE of: rxn01899.seq check: 7424 from: 1 to: 786  
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VIWVPGNHELFRNKTDRVNGKARYRALVGQLRAIGVITPEDPYPIFGGVITICPLFTLYDY  
SFRPLGLTAKQALAQAKIKLDDELAIAPYVDIPAWCAERVITYTEDRLKATKGPKVLVNH  
PLVIEPTHRLFKDIALWC GTTATRDWAVRFNALMAIHGHLHIPAETRV DGVSHVEVSLG  
YPFEKHPPHMKRPWPFPPVMQIN

>RXN01902 TRANSLATE of: rxn01902.seq check: 3503 from: 1 to: 1059  
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NHDQYNYDAYNAMYPRPNQVDENYFFEYNNALFLSLDSNDYLDIDDDIAFLRDTVAAGHD  
DKDWIVLTYHHSTFSQAYHMDDARIKYQRERLTPVISELNVDLVLGGHDHIYTRSHLMNG  
FTPVDAGREAVVGETLNPKEGVEVYLATNSSSGSKFYDFYDFQLGQRYDTGLDFQETVDQ  
KKIRTYTAVWNQDQVQDYTNVELTPEGLTVTTKDAVSGELVDQFTLSKQDRDEESEVPVE  
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>RXN01908 TRANSLATE of: rxn01908.seq check: 3792 from: 1 to: 846  
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LDVVCVTTAATCDELIPADSLIDIYRQWAFGDVWTVIPDSQPGLAGIYADDPADALAYYQ  
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ADDNPEYDRALVELSAYLLSIDLDDRVAEMTILGRPVPKEG

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RANANLAPQTMPLHLDTKDGQRNTGVAYSDAQIQAMQTVAAQGRNHMTPLLSKDGETVG  
YSMLVKADVMFPKTKDGKSLPAVMNTKSLQPSGVPISDAMNIQQQFMAMNRQAAEAQ  
KAAQAQATQAQAPQVAPQVPMQNNQQFQAPVPQGGQPAYAGAPVYADAVAHATAQQQAAAA  
QAPQAPAGNPFNPQPAVAAALAPQTQPPAVAAALAPQTQPPAAQPMNDNEPPF

>RXN01910 TRANSLATE of: rxn01910.seq check: 445 from: 1 to: 846  
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GGSMKASAYSIAAGGLSYLKDGGPGVIKSAMASGAAGFGADKVHDKLAESGHEGLADSL  
SGAIQGGGLGYSTLGGVTGAGIGGATGGLAGLAQNYFGGGDDYSNAGASAGFSANQVNS  
EISTEIPQFANLQGPQRSELEQLALPQESRSVDKSYDQGYEA

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GSGLRDCECRACVVAQKLGVTVAHGVVQASARKKDRVIGRADGIDVAGWWNHRQEARR  
KTSAAQQLERDAQRKRTQAERDKIEIKRKAQEFVAEQSGKAAAAQRRAEKKAQARVD  
ELVAQKQAAQEQKTHCKRDKQRAKKAQGRKVGAVDNSAVDDVLAYAEKTRSIAGCRDDDS  
VVHVDMAAGVRDV

>RXN01930 TRANSLATE of: rxn01930.seq check: 8516 from: 1 to: 951  
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SNLVGIMSMHFMFESIHPFYDGNRTGRYLLGIQLSKILSPATALTMSAINQFRNKYYK  
AFHAVEHRLNRGDGTPFVISMLELLIAAQEGLIENIKQRIDFLASLEDAIKTLRGTSFK  
NHQINLLYILGQIQLFQKDETLSESAAKFLKVSATATRYFRTLREMELVHEVSKRPLR  
FALTDKGREIVGLEVKI

>RXN01944 TRANSLATE of: rxn01944.seq check: 9781 from: 1 to: 972  
VRTATLHVTSSAGEAATTINLTEDDGSFNWALPAADLTGKSWFEYTVTATDGFNSVTEP  
VRVTVDGANTDPLRLNLEENQWVSGTTDVIGASDVFGDKLELLIDDAVNTSSLSAAPT  
FAMEVTQTDVFFRNGILAGGEELRIFDQGTANTETISTPVPLYHINEDGTLTVSVYAGT  
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>RXN01945 TRANSLATE of: rxn01945.seq check: 3307 from: 1 to: 1992  
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KLSSLDGLGMEVTSDAALPYQLFEVDAADALAADTEVRLNWAGSADGRAQVIMYVFDGEA  
WVEVDRHLTGDELEEFTLQGVVNAEKFAIGGTVTVLIQHSEGFAGADHSTRNSDVTAHP  
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DNRGHYDLFSAGGIDFINVAMGWGPDDEEIAWMNEVLAKHPERVAILNLHEFMLTTGGLG  
PIPQRILDEVAATNPNVSMIMSGHYHDAFQRTDSFDDGDGVDDRTVTSMLFDYQGLPEG  
GQGYLRLLHFDNQGQKMMVRYTSPSLKDYNSEPSLLGPAEDPNMYQEFVSYEQLGIKP

EGRTLIGDSFSADFLTSNEIGIVDEVPSGTIAFTNWKDVTEGRHSWYVRSEDPFGGVEIS  
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>RXN01960 TRANSLATE of: rxn01960.seq check: 2689 from: 1 to: 318  
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>RXN01985 TRANSLATE of: rxn01985.seq check: 6664 from: 1 to: 1050  
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FDATEIPFEEIANTAPDVILASYSGITQEDYDQLSQIAPVVAYPEIAWGTSLDEMIEMN  
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>RXN01987 TRANSLATE of: rxn01987.seq check: 9043 from: 1 to: 213  
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>RXN01988 TRANSLATE of: rxn01988.seq check: 4185 from: 1 to: 426  
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REHLNNGATQVMIPVISPSNLTLVVALGNEEVDALGHSEGQAVHSLEIHTPKRSWPLS  
ELYIDDNEGLAQVSRCFARLVG

>RXN01991 TRANSLATE of: rxn01991.seq check: 5467 from: 1 to: 873  
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>RXN01996 TRANSLATE of: rxn01996.seq check: 8265 from: 1 to: 537  
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EVGGVAEDPFGNTRLGFEASTEINRKDFGVDFQAPLSTGGVLVSEKIKIEIDGSAIKAA

>RXN02007 TRANSLATE of: rxn02007.seq check: 3631 from: 1 to: 633  
MSSDAEKASVELSEKFHPERTHILGAVVFGGLISLLVIGAAPQYLFWLLALPVIFGYWVLK  
SSTIVDEQGITANYAFKGGKVVAVEDLAGIGFKGARTFARTTSDAEVTLPGVTFNSLRL  
EAASHGRIPDAITASKEAADGKVVVVQEDGYSVMSKEEYLERQKALGKPVQLNFDDDTD  
GNTTQTESVESQETGQAASETSHRDNPASQH

>RXN02014 TRANSLATE of: rxn02014.seq check: 217 from: 1 to: 507  
MENIAEQAGVG VATLYRNFPDRFTLDMACAQYLFNVVISLQLQAISTFPTDPEGVWTSFN  
QLLFDRGLGSLVPALAPESLDDLPEVSALRRRTTEKNTTTLINLAKQHGLVHHDIAPGTY  
IVGLITISRPPITALATISENSHKALLGLYLSGLKHGMANIGEHDGKS

>RXN02019 TRANSLATE of: rxn02019.seq check: 8826 from: 1 to: 501  
EIPAGTKVEASDLGLQAIPTSLPSTSYDSIDDVVGLVAASTLSSGEIATKPRFVGTELI  
NSIATNVTDSSLVEEINMVPLSLAEPSPVILLQHGDITISVVSQDPDTGLPENIAAGGTVI  
LAGGTDPTILIALPQSIAEKVAAQSLNTPLAVVLTGDRADNYTTEE

>RXN02023 TRANSLATE of: rxn02023.seq check: 8728 from: 1 to: 768  
MAPKQTPSPEKNRNLVGPVLQRRQTEGTFDQRLLEMRADHNWKHADPWRVLRIOSEFVAG  
FDALHEMPKAVTVFGSARIKEDHPYKAGVELGEKLVAADYAVVTGGGPGLMEAPNKGAS  
EANGLSVGLGIELPHEQHLNPPYVDLGLNFRYFFARKTMFLKYSQAFVCLPGGFGLDELFL  
EVLCMVQTGKVPNFPIVLIGTEFWAGLVDIRHRLVEEGMIDEKDVDRMLVTDDLDQAVK  
FIVDAHAGLDVARLHN

>RXN02032 TRANSLATE of: rxn02032.seq check: 9048 from: 1 to: 570

MPFLQISLLSIGVAADAFACSVVRGTAIQVNLFKRALVLAGIFGVFQAAMPLIGWFIGRF  
FAGITFIAEIDHWIAFALLGIVGTKMIWDAFQPEDDETIVDDGRVQFRPAIILGLATSID  
ALAVGMGLAFVEVSILKVALSMGSITFALSLAGAWIGHHGGGKFGKWATILGGIILIGIG  
ANIVYEHLA

>RXN02039 TRANSLATE of: rxn02039.seq check: 6804 from: 1 to: 840  
KASISNLSFWTSTSTAPLWLVGTLVWLAVQAVMHDGELYHVEVPTIALVIGFGAQLLIG  
VMSYLLPSTMGGSASAVRTGTHILNTAGLFRWTLINGGLAIWLLTDNSWLRVVVLLSIG  
ALAVEVILLPKAVRAQRGVITKKREPITPPEEPRLNQITAGISVLALILAAFGGLNPGVA  
PVASSNEDVYAVTITAGDMVFIPDVIEVPAGKSLEVTMLNEDDMVHDLKFANGVQTGRVA  
PGDEITVTVGDISDMDGWCTIAGHRAQGMDELVKVAAPN

>RXN02044 TRANSLATE of: rxn02044.seq check: 4936 from: 1 to: 1383  
MVTPIMGNSNSILGIYRQKIQRHLVSTLFRAYFPIVTELIILLIVIVTALAFDFTNGFH  
DTGNAMATSIATGALKPKVAVALSASLNLVGAFLSVEVATTVAKGVDLDQFDLSNAWDS  
HQLLLVVFAGLIGAIWVNLTLWLLGIPSSSSHALFGGLIGAAIASLGFGGVWEGVLSKM  
IIPALAAPVVAGLVAAIGTFAVYSITKAVGDNEKNRYFRWGQIGSASLVSLAHGTNDAQK  
TMGVIFLSLVATGHLGTDADIPFVWKATCALAIAIGTYLGGWRVIRTLGKGLVEIDSPQG  
MAAETSSAAIILTSSHFGMALSTTHVATGSIMGTGIGRKAKVRWSVAGRMAMAWVITLP  
ASAIVGVFCWWVAHGIGLISDGLVLAFAILVILSGYIYARSRRVPVDPSPNVNADWNE  
ESNSVEPATPSAPAASEITEAPAAPAAQAVQDLNNEVTK

>RXN02045 TRANSLATE of: rxn02045.seq check: 8713 from: 1 to: 261  
MNFATIFGSIFEVTLVGILLGAGLPALFALGIRFAHSPSSNGTNALGKIASTICFAIIAV  
AIIAGILWVTKATIIYQYSGFDIFGTEG

>RXN02049 TRANSLATE of: rxn02049.seq check: 6577 from: 1 to: 609  
VRYLTLATIIAGLSGFVVIIIAAWALGDSSQLSEEFYAYWGLFFAGTGVLTLTQETTRA  
VTAGSRGGRGGRAGSVVGFPRFLFSFVVAIVLVVLGASAPLWIGQLLSNLQGVGVGLL  
AVGLASYAIQATISGIFVRLPIVERVCLADFFGHRRAHGFNCCRLVAGLSIAGVLDHHR  
GINILAGHRAVLRFGAFRFGIGC

>RXN02050 TRANSLATE of: rxn02050.seq check: 1487 from: 1 to: 795  
LDTGVRMVLTVAAWLLGYQLLAFLIITVVGSIWLVIVLCFGSVRSVLGSAVDSRGVFI  
RQALLAMAASGATAVLITGFPTLLKFTNPASVAGGVSMMAVSYAVILTRAPLLVPLQQFQ  
SAIIVRFVKGTSGLKTLAGPLAIVWAVGLVGLAWLVGPWILDVVLQKELFAVPGWLL  
AMTLTGATTTASLMVSGCAAIAFERHGIYLTGWVVATVVAVGFLGPFDLGVAAGLALIV  
GPLCGLLVHMGAFVGGDRNRVLTAG

>RXN02059 TRANSLATE of: rxn02059.seq check: 3288 from: 1 to: 495  
MTQPRPDAASVSLEKKRPEGWPVGSFETYPEAQAQAVDLLSDNAFPVTELTIVGVDLIEVE  
RVTGRLTWGRVIAGGMASGAWLGLFFGIVMALMSGFWFSSIAAGIGMGLVFGIVGAAPVY  
AASKGKRDFTSSTQIVAGRYDVICSPERAREARDMIALKTRDLRQ

>RXN02066 TRANSLATE of: rxn02066.seq check: 2735 from: 1 to: 492  
MFNSDTTANLQAKSRDRAGSKAKRSRPSFDSVARDVLDVVRTKTAQVKNKAKEFSSVDHLS  
ADAAAMFVDNELSRGAMHRARLHIVHCAECREEINRQRETVDYLRSECKNEEVSAAPMDLK  
ARLASLATECMPGPAENLAMQRPESFVAKVESVVRRAVRKNQGR

>RXN02067 TRANSLATE of: rxn02067.seq check: 4916 from: 1 to: 456  
VGWGEIFLLVVVGLVVGPERLPRLIQDARAALLAARTAIIDNAKQSLDSDFGSEFDEIRK  
PLTQVAQYSRMSPKTAITKALFDNDSSFLDDFDPKKIMAEGTEGEAQNRNKQAADNNANVV  
ERPADGSTARPTQNDPKDGPVSGGVSWTDII

>RXN02075 TRANSLATE of: rxn02075.seq check: 2111 from: 1 to: 789  
MYKVFEALDDLQVAVQRAYGVPMTGNCVVPQEVLAALLDDLRLDALPVELDDAQDVLDRD  
GVIREAEKAIALVDDAENEARNLLARATEESDAMVEDATKHAHSVVAKANDTADRIVSD  
ARREANSVTERAQAESERLVNSGNDAYRRAVAEGQAEQDRLVSEAEVRRSTEEAHRIVD  
AAHADSNKLRNECDDYVDTKLAEFETSLSTTLRSVTADRSALRRGAGATGRELRDEQPAA  
RGEYERDYERDYERGERDDRDY

>RXN02076 TRANSLATE of: rxn02076.seq check: 9502 from: 1 to: 534  
 MKSPFIIDVAALLRGSALPEHLTQSGPSPTRIGPEMIAIPEGGKVIVEAQIIPLGGLAV  
 EADIEAQLLGQCSRCLRELTPTKTLHVSEVFAADPDFVTGEDAADDEDELPMVNQDQIDL  
 LQSVIDEAGLTLFPNPFCEELGYGACQDDETPAPDGVSEEVEDEEKVDPRWAGLEKFL

>RXN02094 TRANSLATE of: rxn02094.seq check: 8559 from: 1 to: 717  
 MAEHNAIITDAVHSDPAVLEDNAGFSGKYLRALDKAAHMQTGAIEGYISWLRKHNPKEKT  
 PAQLQVLVDKHFMRLATGSGAGVGMMAAVPGIGFVTGALAVGAESLVFLDAAAFYTMSA  
 HLRGIDIRHPERRRGLILVLLGTAGKAIVDAGVGDLSKKNHAPGIAISRFNIGGLMEVN  
 GRMLRYAVKEVSKRFRSALIGKILPFGIGAVLGTMANRKIAKRTVGNAYDSLGLPTHF

>RXN02104 TRANSLATE of: rxn02104.seq check: 737 from: 1 to: 1122  
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 SSVFGGVITLPTTNAAGRLTEASYTLTSETNTAYIDIAAASGLPAVADDLVPTTGDTYG  
 TGVLIADAVTRGATRIALGLGGSATTDAGSGILIALGAVPRNKEGYALRTGGADLINLDY  
 IDTAELNIPAAAVEWILLTDVDAPATGPQGAATVFGPQKGATEKDISLLDAALHHAQAQL  
 EVDGTPKPGMAAGGIAIGLTLWSTLMHGNDDQIHLPGAPLIARSNGIEDALPETDLLIT  
 GEGRLDSQSFTGKVVGTLHGLAKAHDVDLAVAAGIVEGGIPDDFLAVEMIKSSDVAAQLR  
 DAGRRIAQEYVAQN

>RXN02107 TRANSLATE of: rxn02107.seq check: 3646 from: 1 to: 342  
 MDLHKVAAAHAATLPLSTKEFPFGPEHEVYKVRGKVFLLLTILNDEPIITLKSDEIGAS  
 LRSGFPTIQAGYHMKVHWLSISDGERITKDFIEGLVEESYELVISTLPKYKRP

>RXN02108 TRANSLATE of: rxn02108.seq check: 5369 from: 1 to: 609  
 MGDMMKTRHIHACVEISQGNDRIIDPGTFGAPDLGATILVTHNHADHVDPELLKPGMT  
 IYAPRSVAHSIPVECHIVEHGRNFTVGSLSVEVLGSEHAMLTHSMPIAENVGYLINGRVL  
 HPGDFTFQPIKDVELALVPVNGPWVKMLDVEGYLKKFPKRFIGIHDGIVNDRGLAINKKF  
 LTHLGETYGYSEYSPLEEGESLEI

>RXN02114 TRANSLATE of: rxn02114.seq check: 7318 from: 1 to: 486  
 SIGYAWTTAFHALTPGLGGIAIGIWLLGGVLGGLVIRKPGAAIFVEVVAACVSAALASQF  
 GISTIYSGLAQGIGAEIIFALFLYRRYSLPTMLAGMGAGGGAIFLEMFFYGNLAKTMSF  
 NIIYSTTVLISGAILAGLLSWYLVRLALARTGALDRFAAGREV

>RXN02121 TRANSLATE of: rxn02121.seq check: 4238 from: 1 to: 705  
 MITSPFERELKLLNEGELGIVQQLVESNIGFIVDLELDGDYGWAVYKPELGEQPLWDFP  
 PGLYKRERAAAFVISEFLGWNIVPPTVIMHDAPAGVGSVQWFIENNGEHYFPLFDTRADLH  
 PQFVRMAVFDLLCNNTDRKAGHVLLDGDHIWGDHGLCFVSVEPKLRTVIWDFAGCTIPDD  
 LVTDVEQLLEDVPEELHQLLHPAEIDALQRRASRISRLPFLPQAKSHRQFPWPLV

>RXN02138 TRANSLATE of: rxn02138.seq check: 8752 from: 1 to: 342  
 MTAPSTNTGVILTESAASKAKALIDQEGRDDLSLRIAVQPGGCSGLRYQLYFDDRTLDGD  
 KEDIVGGVRLVVDKMSTPYLLGAQIDFADTIEQQGFTIDNPNAGSSCACGDSFN

>RXN02151 TRANSLATE of: rxn02151.seq check: 8209 from: 1 to: 1188  
 MDWPDIAKGISILGVLLHVS LAIPGGQDTMMSHLNALLDPLRMPLFFMVSGFFAVKVLN  
 QSFGELEFRGLWFYLVFYLWTPVNLVLRHLEGTVFTGRAPGTWEWYSGSMLSATNMWYF  
 LYFLVIFNLFLWATRKLPAWAIVALVASLWLLMPAYSEIEILRKSIIYLPFTFLIGAYFRP  
 LISRFAEAATRPAKIVFAAVLYVSGLALGVISNGLRDSNHGASVLWLMNLRDTFAHALG  
 GNLTGFDMDHLPGMIIIRIVSLPAGIVLCVWLGRIPKPVGEFLKLIGRHTLPYIIGHATGLS  
 LIFGFGRLWNFMEIDNFSDSLWHHTNTWMVIAFACAMLGGYLYLISRPVVLGWTLPVPPK  
 LPEPDKTPAKAQADSHVKAQSAKPMNASTSSKTYGI

>RXN02169 TRANSLATE of: rxn02169.seq check: 3541 from: 1 to: 846  
 LDMQINRRGFLKATTGLATIGAASMFMPKANALGAIKGTVIDYAAGVPSAASIKNAGHLG  
 AVRYVSQRRPGTESWMIGKPVTLAETRAFEQNGLKATSVYQYGAETADWKNAGAATH  
 APQAIALHVAAGGPKNRPIYVAIDNPNPSWSEYTNQIRPYLQAFNVALSAAGYQLGVYGN  
 NVINWAIADGLGEFFWMHNGWSEGKIHPRTHQIRIDKDTLDGVDGIDMNNVYADDWGQW  
 TPGNAVDDAIPITPGNSNTGTGTGIDADTINQVIKILGTLSS

>RXN02180 TRANSLATE of: rxn02180.seq check: 4458 from: 1 to: 1458  
 MTSGKSTSTRGALDRYFKISERGSSIGTEIRAGVVVTFAMAYIIILNPLILGTTDPVEGN  
 TLGIAQVAAATALAAGVMTIAFGLIARYPFGIAAGLGINTMVAVTLVSGEGLTWPEAMGL  
 VVLDGVVIVILAVSGFRVAVFRAIPASMKAAISVGIGLFIAMIGLVDAGFVRRIPDAAGT  
 TVPVTGLIDGSIASWPTFVGVVLLCGILVVRVRGGLFIGILGTTILAIIEAIFDSG  
 ASFENGAEANAEGWSLAVPGLPDSFGGIPDLSIVGAVDLIGAFSRIGVVAATLLIFTLVLA  
 NFFDAMGTMTALGKQGNLVDDEGNLPDIKKALVVEGAGAIVGGAFASSNTVFADSSAGV  
 ADGARTGLANVVTSLSFLAAMFLTPLYEIVPIEAAAPVLVVVGAMMMGQVTEIDFSKFI  
 AFP AFLTIVIMPFTYISANGIGVGFIMYAIMAAAAGKAKQVHLMWLVLVAGLFVVFFAIDP  
 IMEAVG

>RXN02185 TRANSLATE of: rxn02185.seq check: 8940 from: 1 to: 579  
 MGRHSTKTSSAFTKLAASTIAFGAAATIMAPSASAPDSWDRLAQCESGGNWAINTGNG  
 YHGGQLQFSASTWAAAYGGQEFATYAYQATREQQIIVAERTLAGQGWGAWPACSASLGLNSA  
 PTQRDLSTATTSTPEPAAAAPAVAEYNAPAANIAVGSTDLNTIKSTYGAVTGTLAQYGITV  
 PAEVESYYNAFVG

>RXN02186 TRANSLATE of: rxn02186.seq check: 5727 from: 1 to: 198  
 MYDMANVEKKHFVDPAPWPEHNPADGHVVTELISKVAGASSPWGDDKEFPVSAEETGYVHP  
 YTRINR

>RXN02207 TRANSLATE of: rxn02207.seq check: 6831 from: 1 to: 798  
 MRRRSRVSRLLPATALLASTALLSACTQGVTDSPDMGKATPAVSPAASNPDGQVIEFGN  
 ITDMEVTDGDI LGVRTEDALAI GTVSDFEAGSQVELDVKQCGDLTATGGTFVLPCADGV  
 YLIDAKDPDLDELRAIDKPVTVAAALTSDDQLLVNGEDEELTIYREGEEPETFTVAGPNT  
 QLIAPVPIDRHDAVVRTWNENTTIQDVDPNDREGATLRVGLGVGMAGGEDGLLVVSDE  
 MGGQIAIYNADDVIRLQNDRPHRRGT

>RXN02223 TRANSLATE of: rxn02223.seq check: 9117 from: 1 to: 501  
 MSTYQDDRFPDPYAPLGEKPSFTLTSTDLENGAKLAELQGGTDISPQLSWSDLPEGT  
 KSLAITCLDPDAPTGAGFWHWAVFNIPPTVTETIPTGAGDETLLGGIEGVVSLKGDGSKRGF  
 YGAQPPAGHAPHRYLFAVHALDVEKLDIAPDATPTGLGFNLYFHTLG

>RXN02226 TRANSLATE of: rxn02226.seq check: 1898 from: 1 to: 1056  
 MTENQTPSSTSAPKPGPRPGPRPGAQVAAKAAVATPAPIAKTSNDPAKFGRVEAD  
 GSAYVTTSSAGERLIGSWQAGTPEEGLAHYGARFDDATEVELMEQRLISHPDDATSIRTK  
 AEELKATLPTIAAIGDLGVEARLSKIINNSEEANERAKEQKAKNRERAVARKEELAVEA  
 ETLAENSSDWKVAGDRIRAILDEWKSIIHGIDRKTDDELWKRYSRARDSFNRRRGAAHFAEL  
 DRTRASARKLKEELVERANALKESTEWNDRARAFLMTEWKAAGRAPREIDDKLWAAFK  
 GAQDYFFDKRNAVAKERDQEFANATAKQQLIDEYDAQINPEQGLDGARSKL

>RXN02238 TRANSLATE of: rxn02238.seq check: 4471 from: 1 to: 285  
 VTNVSNETNATKAVFDPPVGITAPPIDELLDKVTSKYALVIFAARARQINSFYHQADEG  
 VFEFIGPLVTPQPGEKPLSIALREINAGLLDHEEG

>RXN02254 TRANSLATE of: rxn02254.seq check: 1030 from: 1 to: 777  
 IAVAEEGGLWENLLQHRFGGHGALAGHALGNLVIAALTDILGTSQHALLDQIAQLAGAKGR  
 IIPVCAEPLDLEAEVSGLDSDARVMRQVRGQVAVAAATPGQVRRVRIIPDNPEPNPAAIEA  
 ILDADLVTLGPGSWFSSVIPHILVPGIVDALAQTKATKTIVLNLTSSEPGETAGFSAERHI  
 HVLRQHARNLQVDQVIVDAKTLSSQTERNHVERAARTLGAEVSFHDVQAEDGRGRFTSIH  
 DPAKLCAALLASFAGARKR

>RXN02271 TRANSLATE of: rxn02271.seq check: 4621 from: 1 to: 558  
 MSFLNSAKTKTVALTATFVGAATLATPAIASADIVDNALAALPSGEISCSQAKEYWTTTEA  
 DYNKVAQANALAMFDSRGPQIQAAALARVDEAANRCGLKGGTVAAQAEATEAAPAAPAPA  
 PQDNTGTSQTAPAPAPAAPAAPATPVVNLAPAGSPFTTIEVPGVGGVQLPDLYQIVQQFLA  
 QFGIKI

>RXN02279 TRANSLATE of: rxn02279.seq check: 6646 from: 1 to: 1458  
 LISLEKKQKDANFFLSELRRQGYRAVDLFLESQTVQDLNNPDVQTYLTEAELIRDDLRSWA  
 VINQMALDNIDLVPYGEENDEPLAIARKIIEETASHPELRFENLEAQFSEFTILLAQSPE

NLDVARYQELRTQGNFVQELALDSIFGQHAVVQDTGNGEAILDETIGYMIGAGMRETTAR  
 TASQFAQLYSFVGRQERSIEMARLAFFELQAAGLPHREELRLGMQLAQVEPIEAREILE  
 KLLLKPFEQNLTLDLETEALLPLGATVAIHDPQAAAAILRHARENAAGFGNFELAVQAM  
 TMITDVLYTQNMHEQLLEELNHSIPYAQMLDDQHQAELKLLDSIAIVQADLGSTEALLET  
 GTAMGLAETTAQKLYVQESLNRAYFTFARPEDCISGAADASALAMQNDPSNAAQLEQC  
 AQYLFQLGHETDGASLLESAFRVEGIPTEQALYYANALSSIIYEDFGDSAKSQYWEQQAQE  
 KQQLLE

>RXN02296 TRANSLATE of: rxn02296.seq check: 7700 from: 1 to: 489  
 MRNQTIAAVALVLLTAATPAIAATPATAGNGLYSIDMGDEQKLTCLVLFDEPSTEAHVVA  
 SCAATFPVTWKLLDGAHEQAQKLEITQAQDGELSVTASKQPLITTMIAPTSITKPIVNR  
 LVVVPGENEVRFYATDPDVLPLITPDSYEVLTDSAAKVKATL

>RXN02300 TRANSLATE of: rxn02300.seq check: 2962 from: 1 to: 333  
 MKTYAVLIAVAGLALAGCSSAPGIWRATEPADAYLEIADDGTLSGTDGCNRLFEGWEKD  
 GSTITFGAIGMTEMYCEGVNDWLSQMHTATVTDATMTIFNEAGSNIGELKR

>RXN02301 TRANSLATE of: rxn02301.seq check: 2104 from: 1 to: 717  
 MDLALAQVDSTVSGLYDALDLIGVLLNGIIGGTIARQRGYDIIGFLFLALFSALGGGMIR  
 DMLIQQGTVAIDNQIYLALAFSGALIAMAVNFKGRVWELFKVHGDAIVLGWAVTGSVK  
 AMNAGVAPLPSIFMGVLTAVGGGMVRDVATGQTPTIFGGGTLYAVPATLSATSMVIFHSF  
 DQVILGMIISPFLGIALAVTAYWCGWVIVPNTDFAPVNLTVSQLRAMLSKAERKDKDQK

>RXN02302 TRANSLATE of: rxn02302.seq check: 9010 from: 1 to: 879  
 VATNRTSSAGVITSVLASALFGAIFFISSGAIEAKAETLVAVRVLLTAACYLLALLHPAGR  
 KVFKEFWDTLRSQPRQILYFIFLVVLITLQLWLFWSWSPKSHALDASLGYLLLPFLVIVG  
 RFFFADYITRLQWIAVGIALIAVTLKFVISAQLSWVTFAIAAGYALYFALRKYSGLNNAF  
 AYGAEVLALSPLAFFMLATVEDPLSNAMLSMVLILAGLAGALAMALYLAASTLLSMPMFGL  
 LSYGEPILLFVAALLLGETLNLSDAIVYSLLACALALLGFDGIRRSRKNLETD

>RXN02303 TRANSLATE of: rxn02303.seq check: 6641 from: 1 to: 906  
 MAENNTPQETEQDQEARFREEFEVGGKDRQLSEEEQLEQLGSYIDAHYPVPDFTPPWAGG  
 AGDPDPADRYIAHLPRDRTTHTAMIMLGSLDHSMPGVAFIGGVSVDDVPEVGGAIFHPSN  
 PTGRWAVSFHSGGWWRGSGDALEFQWRPEVAAAAELSGTTILDLDYPLAPGHNLHDMNEV  
 VGKAVGYARHHNPVSITGWGYSSGAALAINASLFDALVLTFFDLGSVEKLP AEIRGDAV  
 VPAAAAWPTTFVQIAAQDEIAERPGEGLDATVKEYVSRHRISTPKVAREKITDVAEFLKT  
 VC

>RXN02307 TRANSLATE of: rxn02307.seq check: 9052 from: 1 to: 621  
 MSGTAIMYDTTVPSPKKEIAQAWTGYVDLQGSYRLVDTVDGEVGVVLSKDRGRLQI  
 PFSYRSAEINPEQTLSTLEHGVLGKRWVTNALGDPVAVREFIRTIILTGDGGAARSDGVKG  
 YLDIKSGDAESVDLQDVKLTEVTRQRAIGSVTINGERKQFSLRLPQLLKNFRETAAGHT  
 ATTLRIVATHPEKDDVELLVAEFNWME

>RXN02314 TRANSLATE of: rxn02314.seq check: 2536 from: 1 to: 441  
 MEWYQVRRRARQLLIVLFIAAMLGAASMVGPFPLNDRTIEGNSGRALAQVTNVGSYRTTV  
 DFQDENGIIYHSPATGLLFPTGLGEGQRVWVNYAKSDPDLVKVEGRKWTLIIIPALSVAAV  
 ATATWSVLWLGVGRFRSDDANETTV

>RXN02337 TRANSLATE of: rxn02337.seq check: 408 from: 1 to: 1323  
 MSKLYAGARINALRRTHQLTQSALADKLDLSTSYLNQLENDGRPLTATVLLQLMKVFDVE  
 ASYFSPDRGTATATRLAETLAMNQPTMSMDLLDFADRFPQLAQHIIQPAEVDPTHSSA  
 HDFVRDYFATHKNYIDSLDLRGEELATAIGQPGLRVTRLAQLLDAEYNITVRFRAPDITG  
 RRHFDPPQSRQILLRQDLSEAQQCFQLAEELTFLAHAELDLTLDQPDLPSEAAIRLAKV  
 GLSQYFAAAVMPYTRFLEFAQDKHYDIELISEAFGVSFESACHRLSTLQRSAGSGVPFF  
 FVRSDRAGNISKRSQAATFHFSRTDGTCPWLALHRAFERQGNITRQVARMPDGRTYLWLA  
 RAVKGRTHGFGYPAAEFAIGLGCDisEAPGLVYSQGLNLDPEAAEIGPGCRICPRENCV  
 QRAFPSPGQESIRPAPVQLLN

>RXN02339 TRANSLATE of: rxn02339.seq check: 8878 from: 1 to: 492  
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PDSPLVWAYRAENLIKSASNDEEKIQAYAFARTGYHRS�DRRLRANGWKGWGPVPFSHEPN  
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>RXN02340 TRANSLATE of: rxn02340.seq check: 7304 from: 1 to: 1065  
MKKSIVVFEVEGGSDKHFDGHRKDTMPIVNSINDAGWQAEVVYYRPEWTEGLFEYVSENF  
DGYISRVPNGNIPGGERGYFDLLTRLSEAGLVGMSTPEEMMAYGAKDALVKLSQTDLVPS  
DTEAYYDVETFHKVFPSTLSFGERVLKQNRGSTGSGIWRVQLVDKELAASIEPGTALPLD  
TEIKCTEAVDNHTEVRKLGEFMDFCQYIIGDNGMLVDMRFMPRIVEGEIRILLVGPHPV  
FVVHKKPAEGGDNFSATLFSGAKYTYDKPEQWQELIDLADARPVIAEKLGGDNIPLIWT  
ADFMLGDVVDGKDTYVLGEINCSVGTSELDMGIQQLVASEAIKRIEEFAQLTV

>RXN02341 TRANSLATE of: rxn02341.seq check: 4129 from: 1 to: 486  
MGNSLEKHIAEGDRIHVDLTSPLSAMLFPFIFELIVITGICWMGIGFLDQLPGIDGTPAD  
SFPEGTRNLLVGWAVLAARFGLPLIRQRRRLRVILSDRKLVRRAGLRTGFDSIPLSYI  
QRVQRRRNTLVLGVGGHHRPYVINQVPKARKVEALLKDLTFW

>RXN02360 TRANSLATE of: rxn02360.seq check: 7403 from: 1 to: 2433  
MRGDVQKITKVYDGKHRTLEIPVYQRNYDWTEKQCSRLFDDLSEVVKENHRQHFFGAVVG  
KPQGSWTWVIDGQQRLLTISLFLALVHSLRASEVEEGEFNAGYNIDLATLIEDDYLR  
GNEGNLKFKLKPVKNDEAYQKLFGESEFIESSNLTANYRYFRNVLKATDLTAAQLWEA  
IEKLRVMYLDLEEFDDPQRIFFESLNSTGLELSEADKVRNLVLMQDELKTQEKLYEQRWNP  
IEVCVKFDTDNFIRWYLTLTARTPRKQDVYEEFKKFIRNSKLPVEFILDDMYEYAKLYR  
DLLGATTGFIAADRCLKRFVPVMGDVLPFLLPVLKDAKDGIIITESDFLGVLKVLESYLF  
RRFAVGVASNALSKIIFSTAYSIDIKKFWTPGQSYSSLLAYILKRRDGSGRFPDSEFREN  
ATKNFWNHNNRRYLFDCLENADSNDVRDIQTSLEDEGSLSEHIMPRSLNDQWRAELGP  
EYARIHETWINRIGNLTITGYNSAYSNSSYERKRTMENGFLVSPYRINNFIIKKQKHWSEE  
QLIERTELLTQAALDYWPLPKETFQPPQAVLPTESLDSDLSFRGREIVAFEYEDYKETVT  
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GFLRRVFTQLGLEQALVFTLRPLANDVEPRDDELEVEVEKKYSDLTKFIPQLEEAENLE  
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IASMMGDDYLLEELRSGRLRELLQRLEELDS

>RXN02361 TRANSLATE of: rxn02361.seq check: 1002 from: 1 to: 651  
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DLPVSWQAAMIMLGALATSVEVSFDDPEADAIFTSLDRFSHYKGHSVDLIVSEDPFGRGV  
VEGGGELPNGAIDFGPTVRFYGDQFFQPTRTLPEIIQHSDVPVGARVLATGWSDIESFNH  
QVLEPLAVGGS AVIVTGLADIERLNQIATNEKTTHRI

>RXN02367 TRANSLATE of: rxn02367.seq check: 8247 from: 1 to: 609  
MSNAEINPVEYEINNHPGTALNPQCEDGANVEIITSREVPLGGPRAMTVHRTLPRQR  
LIGAWCFVDHYGPDVSLTGGMDMASHPTGLQTVTWLFEGEVTHHDSGGNHAVVLPGEV  
NLMTAGAGICHTEVSATSTTILHGLQLWTVLPDKDREGPRRFDHYAPEEITLEGGSARVF  
LGS LFGQTS PVHTFTGSSCFRVH

>RXN02368 TRANSLATE of: rxn02368.seq check: 7600 from: 1 to: 675  
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IRQLIIPATALAIDIIGLPTLFNAPPLASAAFGGVYGASLAWAAYRADQLPRI RTKERL  
AELSQNASLDDVRSDDLVDLEQPESRELVRCLLAHGAMDGTRVMARQVARVLDTEVDEVH  
QVARSLQHGHLVSRSTIMPGGDPGVFIEVSLKGISAIAKALESGR

>RXN02381 TRANSLATE of: rxn02381.seq check: 8210 from: 1 to: 1023  
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PWTSGFEEKNFRSFGMEKHYRESTGESLMKD VYVMGLNNIEYPASLPLSSEGSSAIE  
LGTSISSGRDNVISAI DRFESATGCTPKYLLAGYSQGVLI VDG YEEELIARDQYLGTLHI  
ANPAQQVDDPTLVGHEVTTGGLASSVEPVEDNPFKVS YCLPGDIVCDRSFEQFSAAGSSI  
AAAQLSTGNIRPGRVHVQYFVTTQPWDEQIFDEVASWIEAA

>RXN02383 TRANSLATE of: rxn02383.seq check: 712 from: 1 to: 636  
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DGV LALHISKELSSTWSAAVTA AAVFDDDSVRVVDTS SLGMAVGAAAMAAARMAKD GASL



QECYDIAVDTLKRSETWIYLRHIDEIWKSGRISTATAMVSTALATRPIMRFNGGRMEIAA  
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>RXN02387 TRANSLATE of: rxn02387.seq check: 2544 from: 1 to: 762  
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>RXN02398 TRANSLATE of: rxn02398.seq check: 7197 from: 1 to: 1602  
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SGEEGVVANAQLPFHNVETPIHLGGDFGTGDMGVDVFDANSTAWIANNDIGKIYSLAH  
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>RXN02406 TRANSLATE of: rxn02406.seq check: 9586 from: 1 to: 549  
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>RXN02407 TRANSLATE of: rxn02407.seq check: 3013 from: 1 to: 372  
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>RXN02408 TRANSLATE of: rxn02408.seq check: 1367 from: 1 to: 912  
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GEQAVENAFAGTHNGSGSVGAGTGATAGRLRGGFGQSSRRVKGTYIAAGVVANPVGEVVD  
LTTGALFGRPEVMGVGVVDKLKSAETLNTTIGVVATDAPVTKAQAKRLALVAHDGLARAV  
RPSHSPMDGDTFFAMSSGDGSGVTPVELAELSAHAADCVQDAIIDAILTASPGGLKLSFR  
ELLP

>RXN02409 TRANSLATE of: rxn02409.seq check: 5850 from: 1 to: 537  
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>RXN02428 TRANSLATE of: rxn02428.seq check: 3176 from: 1 to: 1134  
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SPTDQTVGVDNAQLIFRVTRYPKSLMTLDKADHLLTKDGTAAQRAARIIANWVEPYLVPEN  
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>RXN02454 TRANSLATE of: rxn02454.seq check: 5811 from: 1 to: 1242  
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>RXN02457 TRANSLATE of: rxn02457.seq check: 8018 from: 1 to: 1110  
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>RXN02460 TRANSLATE of: rxn02460.seq check: 7527 from: 1 to: 504  
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 RLLAIGDEETFPYRRVVSVVDVDDSVVTYQPENGESVVKLSPAHLNDDVAIIHIDVEAS  
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>RXN02464 TRANSLATE of: rxn02464.seq check: 6833 from: 1 to: 1200  
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>RXN02466 TRANSLATE of: rxn02466.seq check: 2914 from: 1 to: 87  
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>RXN02505 TRANSLATE of: rxn02505.seq check: 6513 from: 1 to: 171  
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>RXN02510 TRANSLATE of: rxn02510.seq check: 1304 from: 1 to: 636  
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>RXN02519 TRANSLATE of: rxn02519.seq check: 317 from: 1 to: 1629  
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>RXN02520 TRANSLATE of: rxn02520.seq check: 9529 from: 1 to: 684  
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 RKRIETIVEGITPADVTDQSIEDTAKSLVEAFSRHGAAATVDATRNGLQLCQHHCPISTV  
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>RXN02534 TRANSLATE of: rxn02534.seq check: 3127 from: 1 to: 804

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>RXN02537 TRANSLATE of: rxn02537.seq check: 3878 from: 1 to: 462  
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>RXN02538 TRANSLATE of: rxn02538.seq check: 5301 from: 1 to: 672  
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>RXN02555 TRANSLATE of: rxn02555.seq check: 3981 from: 1 to: 603  
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>RXN02564 TRANSLATE of: rxn02564.seq check: 3452 from: 1 to: 1002  
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>RXN02568 TRANSLATE of: rxn02568.seq check: 2134 from: 1 to: 1653  
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>RXN02606 TRANSLATE of: rxn02606.seq check: 7692 from: 1 to: 1371  
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>RXN02697 TRANSLATE of: rxn02697.seq check: 1664 from: 1 to: 1527  
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>RXN02720 TRANSLATE of: rxn02720.seq check: 5443 from: 1 to: 702  
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REQEARAKALELPDMDFHMIGQIQSKKANSIARWAAAVHSVDSEKIAEALGRGVALALDR  
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AFSQARDVLSGLEEHFDRSLEFSAGMSGDLVAAIKHGSTIVRVGTEILGNRPLA

>RXN02744 TRANSLATE of: rxn02744.seq check: 343 from: 1 to: 804  
MSKPFENSALRGSSRFAGTFTAPKRAPAKMLAAQGMESLLFLRHGEQQLLSIIIP  
VALIALANFDFIPGENSLDKTFFPALATAAMSAGFTGQAISLAFDRRYGALKRTGASGVP  
AWTIIIFGKVIAVIAVTIVQIIIFLGVTALLGWSAPVGGVLFIVTLFVGVSSFTALGMLM  
GGTLLSELVLALANLIWIVLSGLAAWAVFSPSVNAEGLVSIIPSVALSQGMVDAFNGELP  
WLQLGILVGWLIITGVAANKLFNFASAR

>RXN02770 TRANSLATE of: rxn02770.seq check: 2969 from: 1 to: 1566  
MLVAALVMTSCGDGEPEPTSHQTSLFGYAVNSSLATNAASLLGVANDAGLLAARVYPGV  
YVQGPSGQMIPINTDLASTQVLPGINRQVIYTINEDATYSQGQPVVCDDELLSATAGQMPE  
LFQSHVPLTSQIERVDCVSGSKVATVVFKEDLGERWRYLFEQGDLLPAHAVASKAGMTLE  
ELNQALKDKDPEALTEPARVWSEGFQLSQFDELPQTAFGPYKVDSVGEFGEVKLVRNEFY  
SGDQAVEAEITMWPKGSDLSAIDNNGNLQIAHVVAWESEPWNRRDDPLNPYDIKEEVGVL  
TEQLTLASAGVFYAAEARQAFACVDQEAFAAASSSISGIDVPAVGVSVRHQNPPVHQA  
GDLPAQHMAVDINAASALAGQSIRIGYDGPDERKAAMVEAIRQSCEPAGITVIDASQEA  
SLNDLSRTEVSEWGYEQYFEGTLDAVLRTPHREYENANTIGTDAESTRTEEQWLAEV  
PSIPLAAQPRVFVIDRTVGNVVVNTDLAIGWNMDRWSRSEE

>RXN02781 TRANSLATE of: rxn02781.seq check: 9745 from: 1 to: 1191  
VVAALVFGFLLPTWERGLSDAALKFVFEGGPDAAREVLGTIAASTISVTGLIFSITLVVL  
QLVSSQFSRMLNGFLNRNIVQATLAMFLGTFVFSLTIVIRYVWSEDEDITGFVPRASVSV  
AFLVLVGLCLGLFAFIRLITFSMRVANAISEIGEETMALAARIYPVQSDDAGPVQGPWS  
PRPGDPREEIRVGNHGSVLWIDYRKLVSWSTEHQAVITVDRPVGDFLVEGQPLLRVWWDG  
ELSDRRRVLHSAIEVTERELHQDVAFLRQLVDIADRALSPGINDPATAAQCVQEIHR  
IFRYLVTVIEPSPYIADDDGRVRVHQPQRIADMLYEVIREIHLYGADSAMIPLLRTMV  
EDLVTAADHSLPAVERARGILDDDETDEDSDTANV

>RXN02782 TRANSLATE of: rxn02782.seq check: 837 from: 1 to: 1299  
MPTLLIDTHPHLAAQLLDPLGGLLTAGSNKKVQWQCPKHSNHIWTASVNNRTNAKNPRC  
PYCAGTRVLAFNDLATTHPHLAVQLVDQDIAVTISAGSGKRQLWQCVNPKHQWLATPN  
NRTSTKSASSGCPYCANRAVLVGDNDFATTYPELAAQLVDQSAATTTAGHNKPVEWICC  
KHEPPFIWKTSPILRVQNTQCPVCSERTVAPALNDLATTHPKLAEQIADPQPSGVSA  
IIPTISRGSHQTWQCSKNHDHQWVATVKDRVRGTDCTCANTGTSRKEAELIEVIRAL  
FPNTDVQOGALINGRTGNQGASPDVLI PSKNLAIEFNGLYWHSELFIDKHYHANKSA  
LAEQAGVQLIHVWEDDWNLRDIVIRMIAHKLHATHNLSAVLPTETTTDSRVATTAFVHS  
HCRWSLVHALLHS

>RXN02812 TRANSLATE of: rxn02812.seq check: 3189 from: 1 to: 339  
VWAVAINAGNGISEDQARAASDFSSFSFDTGNADNSALESVLTQASSESAAETTEAQPSE  
TPVEPAAASPSDTIINLDTSSNMDRVVDGSQETYHTVTSRTLANLARETGAQG

>RXN02817 TRANSLATE of: rxn02817.seq check: 7091 from: 1 to: 399  
MILGVPIQYLLYSLWNWIVDTGFDVAIILVLAFLIPRIGRLAMRIIKRRVESAADADTTK  
NQLAFAGVGVIYAQIVAFFMLAVSAMQAFGFSLAGAAIPATIASAAIGLGAQSIVADFLA  
GFFILTEKQFGVG

>RXN02818 TRANSLATE of: rxn02818.seq check: 4037 from: 1 to: 606  
SYSRKFLTQVWIRDNVGDYKGLTDTAFRKKLQRDLAYLRRVGVPIEQFTVTSGIAEGQQA  
YRLAQDSYKLPEVEFTPDAAVLGMAGEMGHNQELGAFARSGWTKLAAGGAQRDLSTSTA  
LTNAGDLGSLSAKTLDAIIRKARQLGKQISFEYRRAPKDPAPSLRHMDPWGLVPERDRIYLV  
GFDLDRQEARTFRITRVRNIKL

>RXN02825 TRANSLATE of: rxn02825.seq check: 7394 from: 1 to: 1839  
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TGVAKGSITLGDGASDNGGNAFTPTNGTTVTSDSQGTVEFNGSVHFLGHQAEDKWILD  
TTMSDIKMFVNGSSAQLVVDLVAREFKGTTYDDIGEYIISDDIVLADVSLNSAADFSQDS  
IDLSGTTDLTAAGAQAFFGGFYETGEALDPTGGSLTISSTTTAPSTSTTSTSASTSGGTAD  
CSSGALGVVTTGTNDGMLGTIQEVNNTFAIWNNLIVNTERMFCNIDTLKARFDTDDSSDS  
ATSATSGTTASTGTTAATTAGTTGTTGTAASGTSGTSGTSGTAATVAGTTPTDNGVCT  
ASGSLGVTQASAQWGVKASFQNYIRGSIANGSWTLNGVGFNDQQFQFSGNSGAVDAENKT  
GSINFPGSIHFTGHGGILDMQIANIEISFNGNSGELIADVSSDMDGNSTNYGRTVVGTLL  
NFSALNVSATEASGSASVLSQSGSQAFADFYTPGTQLDPISFSATLGGDASCATGSTST  
TGAAATANTDNTEGVAGEESTTPANQNSQFQIRQAAADSTGLDTTTTMLLILAAFFVAGG  
SMTRFTVGNPTGK

>RXN02838 TRANSLATE of: rxn02838.seq check: 4352 from: 1 to: 528  
NTGKGGGLTVPLGDGQGRYIAKFPSTAFVGVSENEFANLALAEAIMGEVPAARELVGRAQF  
EGVPPEFEAMTDGLVLLVRRFDRAGDGVVRHMEDFAQVFGLYPARKYDGAASHDIAAVLG  
SAVSIAAGLEFVRRLLALSVVMGNGDMHLKNWSLIYRGRGDVPALAPVYYMMSTVTY

>RXN02840 TRANSLATE of: rxn02840.seq check: 7123 from: 1 to: 150  
MTVISGALNVLLPDATDWQVYEAGSVFNVPGHSEFHLQVAEPTSYLCRYL

>RXN02841 TRANSLATE of: rxn02841.seq check: 2452 from: 1 to: 435  
MFTAFKSNPTTIKKLVSELINGDDAALNELERHVTNESVRARELPNVQYKATAGRNFAS  
KLVQNLRRINKAQNNPRGVPTHTATVILLKEDGSYDGEEQWRIPEKAITPFDMLRSPDFNH  
NRLKNRPLMVESQYPWGVPGLIKMN

>RXN02846 TRANSLATE of: rxn02846.seq check: 4539 from: 1 to: 750  
VLTIAIVLLASVLIGALLQRMGTGLGVGLVTPVLTSLLGPLAGVTMVNGLSIINAVNNAW  
SVRKRTDWAKFRILAGALVLGSVPAVAVVYFLNGPWLLIFVGAMVLLALGVSLFPTEKFA  
LKQEAKLPMVIFGMIGGFMTSVAGIAGPSLTVYARLSRWYRDFVATLHPVLLVANTVSF  
LLKVILIGGLDFGGAPAWLWIGAVAMIFVGAWLGEIVNAKVSTPMAKRIATLLAAAGAAV  
VLFRGIMELV

>RXN02847 TRANSLATE of: rxn02847.seq check: 8481 from: 1 to: 1089  
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VDVFLLLSGYFFLGSQRLYADRPDSSINPWWPIWRTLRLRLPALVLVLGVSMVLILAWVP  
RLQPIEIANQAVASLFYVQNWELASQGAAYGAASAEVSPFQHLWSMAVQGFYLFALLS  
MAIILIRRYRPEYSAVRLATPVLAVLTSVSFFSAILWHFIDQSVNYYSTFTFRFWELGLGA  
LLVLHAPRILISAKTKSILAAVGLFMVLSTGFFMDGAETFPGFALYPILGACLVILGDG  
KISVFLSRKWMLWLGDIAYPYLWHWPLLIIFTALFNQEEPSIWLGIIVIMLSLGLAQLT  
NKY

>RXN02849 TRANSLATE of: rxn02849.seq check: 4597 from: 1 to: 282  
SPYPVMISTSADASNVTVRIMGVDTTSVESINNGRWSTTQPNTVRVSGSDCVPSTGAPGF  
TTSDDTRIISDLSGNEITRETVTTVYDPSPNVCS

>RXN02911 TRANSLATE of: rxn02911.seq check: 602 from: 1 to: 459  
MRTSKKEMILRTAIDYIGEYSLETLSYDSLAEATGLSKSGLIYHFPSRHALLLGMHELLA  
DDWDKELRDITRDPEDPLERLRAVVVTLAENVSRPELVLLMDAPSHPGFLNAWRTVNHQW  
IPDTDLENDHAHRAVYSGAARSRWPLRLRLHS

>RXN02914 TRANSLATE of: rxn02914.seq check: 6261 from: 1 to: 543  
 MVGNSIWIIASLLGLSALISTYPAILNLLQLVGGGYLTWMGIGAVRSWWTKRSTQQAAD  
 SQAVENTLVTATAASVGVWPAIRSGIATNLSNPKAVLFFGVSFAQFVRPDMGIGWSIFIG  
 VFLTTLTGLLWFVGFVAVLVRKLAAGLTRNGAIIIDLLTGVIIFIGLGMFMIFEGVVGIGGRVV  
 G

>RXN02921 TRANSLATE of: rxn02921.seq check: 4157 from: 1 to: 471  
 VSALEESIRIATIAAKAADEKKADDIAVIDVSDMIAITDCFVVASADNERQVGAIVEEIE  
 DEMTKAGFEPKRREGNRENRWLLDYGLVVIHVQRQAEREFEYGLDRLYRDCPLIEIEGLE  
 TFKRESSWSDEADIRNIDSIDELPPLPAEYEPGYEDD

>RXN02924 TRANSLATE of: rxn02924.seq check: 3999 from: 1 to: 549  
 VPSVASISERATFILTADHFLRSCSKVIYVRGENFTATATTSLSVFGTDLGLIKLDGKAP  
 TMPLPLFADKPLRVGMKTTTFGFGGLPSATVAKEIHGRVISAIPHGVSRNRITRVHHGAL  
 IFNSPEKAVKGDSSGGPVLVNGRVAGIQSMISDPGGFNTGVATAASLIQHMPALAAQALELL  
 EHS

>RXN02927 TRANSLATE of: rxn02927.seq check: 3221 from: 1 to: 468  
 VADEGSILAWFPCGDEAPVLVVTLCFAIFGEVVVAEVSATGLVAVEGVDTHEFAEVDVVG  
 YACCVFENLVHLIGAAGDAHVLPEVIAEGTDLVDAILEVFFVSGNATGEVQDIAKLAVVV  
 LRSVNVVTDPLWAVAHEAVNASLCTNRNCLCFWCIL

>RXN02928 TRANSLATE of: rxn02928.seq check: 382 from: 1 to: 693  
 VAGRCNTHWAGVWVLANCLFVHGEEVGVTLDAGVLSEALGGVAEVQVCSVVQRSNTETSI  
 DLLGDRTGSNVTWDEVTECWVAALQEVVALILRDGVWIAVIVRFLRGPDAAVVTQRLGHQ  
 NGLGLPGGVHRQAGWVELDERWGREVCAGFVCTHDGRGVGLGQGGHVHVAVATGCQDN  
 GMAGVCGELAGDQVAHDQAFALFTVTFGDNDVNHFVMGEDFYGAEVDLAL

>RXN02931 TRANSLATE of: rxn02931.seq check: 8393 from: 1 to: 225  
 MQPYPRNPIEKRKQEVVRKNSRNAVSVGGGIVGGAALWLVFGSAFFMGLGLIIAVVGGFY  
 YYNKVQKIINEKDRY

>RXN02932 TRANSLATE of: rxn02932.seq check: 938 from: 1 to: 972  
 VSKTEEGRSAAIIIIYAFPTFILLGAIIAFIFPEPFIPLTNYINIFLTIIMFTMGLTLTVP  
 DFQMVLRPLPILIGVVAQFVIMPFLAIVVAKMFNLNPALAVGLLMLGSPGGTSSNVIA  
 FLARGDVALSVTMTSVSTIVSPIMTPFLMLMLAGTETAVDGGGMAWTLVQTVLLPVIIGL  
 VLRVFLNKWIDKILPILPYLSILGIGGVVFGAVAANAERLVSGLIVFVAVIVHNVLGIV  
 VGYLTVGRVFKFPEAANRTMAIEIGTQSAGLASGMAGRFFTEAALPGAVAALVHNITGAV  
 YVGLVRNRPLTKASRKESVAVSS

>RXN02934 TRANSLATE of: rxn02934.seq check: 3200 from: 1 to: 306  
 VGADEFDFIFEIDAPEAGFALVDAGGVSFVEFPHAGFEGEVVFVVGEGDLLAECVLSV  
 FCGVGLAFAAPDADEREEREESVVEVGAFAEVSGVVRDRKVT

>RXN02936 TRANSLATE of: rxn02936.seq check: 3720 from: 1 to: 198  
 VVAPFQLVGLVSVQLRSSFSEPATEEAEDTEAESPTTPTGLPAAAASIATLDNASARLFF  
 SRGIHV

>RXN02939 TRANSLATE of: rxn02939.seq check: 7866 from: 1 to: 1602  
 MNLHSLAIRQISSGTISERKTWIFPTAARSFNQNLVHPQSIEIDAQTGVILAMENRLQRT  
 EVESVEYPTDLPNPAWTGPAISWPLKDPSIDFPDPLPHSISELPPQSDNPRHLRVISILD  
 AVEGAFPRYRIGDSIRIPLVFARDTPFMSGLETTRRAWIEAATEMDIHNTWPIILTGDGW  
 TALSHSDKPIRHEAELKGWFFHSLFGSEMPLTDLKIERIYGGGLGTFDSGATRWQELTDTD  
 DAYTENGSWLLEIVVDATLDGAIPPLPQPQFEASITHIVDEQLWVLGQMLPVLRCWDLE  
 TGKYLQGTYPVISVSHSSRLQFSEGLIHDYENAWSLNPGRVRLAEPQPWIEPVIELDVPA  
 PWELQESFPDGLYSLTDGEQTALGRSTPAGQLEICVISNDGSRILNAGRVEDLYFVQFWG  
 MTVFLNSNFQVQSAEEHQLGAKRERWITQEGVAAKFTEEDEIVFLDQISESEITRWKTPE  
 GYFTEVRILSPNHFNILVTPPTGSDYLPVPSSVSVFRDQWSNKFEDVSVEI

>RXN02950 TRANSLATE of: rxn02950.seq check: 7742 from: 1 to: 324

MTVFNVLHDAPAPQPDKNRPGVKRLLOQDGANLIAFTFSPGQSLPDHRAHPITVTAFSG  
QLTFSYGEETFELSPGVTVHLEAGVTHRVDCPPEAPGDASNAVNYAHW

>RXN02951 TRANSLATE of: rxn02951.seq check: 852 from: 1 to: 609  
MSSTLARKASGDGSEKKKPGFLFRALRFLTHPPHKQVDNSLADIREGLGLGVDDSHGSK  
PSNDHSLLEKPEISVMPTESMARLIFYAPDMGQTDPEVWVIWAPADGPQQPPRKRAI  
VVVGRNRNAILGLLISCNPEHRTDEDWIDIGSGSWDPRGRQSWVRLDRVLEVPELGIRRO  
GTVVPPGRFERIANRLRDNFNWV

>RXN02957 TRANSLATE of: rxn02957.seq check: 2405 from: 1 to: 291  
MQTAQGGRVYTSMLDEKSLSPILGLPGRENIGLGRHWHGLSTMLRVNLGIVYVLLFATG  
LWQGIIPTSWDVFPEAWETLKVYLGFRAPGIEHFTPL

>RXN02967 TRANSLATE of: rxn02967.seq check: 8901 from: 1 to: 318  
MDLLVVAVHEGGQPRQSDCNAPGCAHTWLCAINFQLGAGVVEGGVEKRNFFGGTFLGPE  
YGGRALRAGGGGVDIGEQQDFDGGCGDVEFGGIDVIEVDEVGATGS

>RXN02971 TRANSLATE of: rxn02971.seq check: 4841 from: 1 to: 312  
LIAIVALIVALVWLFNRSDDSGSTTTTQECISGNLSLPVGGDSTAAEELVNKFNDSSP  
VSRDFCVAEAVDGNVPAATYLFAGSRSDAATALAETGAVASS

>RXN02978 TRANSLATE of: rxn02978.seq check: 8219 from: 1 to: 1509  
VIDRPVWLFELYNTAKEVVYSLIDQVTGENTILKKDDGWRDQFMIESFFAYDSEADATS  
WSGKNMNSYWFVSDILNISFAERSLESFSWALRDLEDLSSSETEFEGLEELNLKFSELO  
EWTNLELPFPQPSAADVDEVEQYLQAEVTRQRGDYQWSPEFWIPKPDSEYIDHALAVTD  
VLGAIEQGEELREEVEVQALDEVSENWNPLEDSYQLQDHRGRPVQDLREMEELVRCLM  
LDQEWGGAEARIRKLVESVEWEDTQAISSLIEHEQYQWEDGRFRPPLHKFSEGLDEPEPLP  
MTRKMILATNHPDVLVRVNIADYYQQRRIATQKVECYKEVLALYPEILKKFDDSSSFVNRH  
WIYRAFDREGQLLYIGETINPLVRLREHAGLGSINHAHRLVSPWFSTMATFHLESCFTQ  
AEAKEKEALYIKLEQPRYNKTHNSARLAVSEEGVPVNEVPSRNDPRNVGWKGHRHVPPLM  
PIVARVDESTTREGYAFYEDNR

>RXN02995 TRANSLATE of: rxn02995.seq check: 169 from: 1 to: 1566  
LNHAKVNQHPGQATLPETAEGQVRTYEVKTYGCMNVHDSERLSGLLEEAGYVAAPEDTT  
PDLVVFNTCAVRENADMRLYGTGLNLRVSVKEKNPGMQIAVGGCLAQKDKDTVVKKAPWVD  
VVFETHNIGSLPTLLQRAEHNAQAEVEIVDSLEQFPVSLPAKRESAYAGWVSVSVCNNNT  
CTFCIVPSLRGKEQDRRPGDILAEVQALVDQGVTEVTLGQNVNAYGVNFVDPELERDRS  
AFSKLLRACGEIEGLERVFTSPHPAEFTSDVIDAMAETPNICPQLHMPQLQSGSDKVLKE  
MRRSYRSKKFLSILDEVRAKIPHASITTDIIVGFPGETEEDFQATLDVVKARFTSAYTF  
QYSPRPGTPAAEYENQLPKVQERYERLMVVQEQVCEEENQKLIGTTVELLVQAGGGRK  
NDATKRMSGRARDGRLVHFAPEGDIDGEIRPGDFVTVTVTEAKPFFLIADSGVQTHRRTK  
AGDNSAVGQVPTTAPIGVGLPLQIGAPKVAPATESACCSIN

>RXN02997 TRANSLATE of: rxn02997.seq check: 4243 from: 1 to: 729  
PLPGQPFEGEALTILNALLHHAENVAASNPKRTTFHTAHMHPPGSNADCDYCLVLQRRG  
YVKAHEEIQQTIPLPSGDWSAGEFTVVDVEGTAFFPSALIPSIVELQHRAALDVPHGNLSV  
APAQWDEHRLAQQSERILKTGTLFTVLFAEGSTVAAMSSIAIPPGSNPDIAEQGLTIVH  
PDRGRGLGTAVKLGLSLSRCHPEIQRVATSNVADNHAMLAINRSIGATEIARTTLWE  
KKL

>RXN03001 TRANSLATE of: rxn03001.seq check: 9853 from: 1 to: 453  
MDWLTIPFLVNEILAVPAFLIGIITAVGLGAMGRSVGQVIGGAIKATLGFLIGAGATL  
VTASLEPLGAMIMGATGMRGVVPTNEAIAAGIAQAEYGAQVAVLMILGFAISLVLARFTNL  
RYVLLNGHHVLLMCTMLTMVLATGRVDWIF

>RXN03005 TRANSLATE of: rxn03005.seq check: 972 from: 1 to: 768  
MSHKFSRRFAVLTAATAAISTSAFATTAPSAIAEPVLMSCRRFQRRNFRKLPRGLQGGFL  
AHLCHRTLDWNNRDATGGATVNEDGTYNFTLTGTSNYDVEDTEKGQLNYEGTVAFASDAHG  
FNITLSNPQITVEGDTATLSAELSDNAAPEETSTTRVDVAEFELTAPEVSETDADITYTW  
TDASGTLETLOPEELSRYAGQEADALSFSITVDKASENPSDDVATGSSSSFLSTILNFL  
QQLASPLLLKFLGSLSS



>RXN03009 TRANSLATE of: rxn03009.seq check: 8107 from: 1 to: 348  
 VANIASLYGLWEGSTSTPIEQLVPAKGSSFRLVRSFYRRIDGQAVQARLKEKILNTAENP  
 LPRLDIPGKERTAQYPENPDTFQAQAAQEILDEFRTPLIGEEAAHVEKTKTIFWK

>RXN03010 TRANSLATE of: rxn03010.seq check: 697 from: 1 to: 237  
 VPTDNLFLIVAGIAWVLGILSVLSIGKYMSAVNERKSTGIFYTEVPWKKALFTATAVLLV  
 FAVVWSALDIALWVGKQSW

>RXN03011 TRANSLATE of: rxn03011.seq check: 6364 from: 1 to: 201  
 MAYETDSLNRRTLGPAIASAVVGIAVGAVAVVGVSMSISQDTPVPTGNAVTAADDALLGGPE  
 YGSREAD

>RXN03012 TRANSLATE of: rxn03012.seq check: 8240 from: 1 to: 570  
 TTINIIITNGAAPHTNLNRAEIHDLPLTASDSELTRPSQESVLYDHESETVLRMTMVIP  
 ADLHVAMKHLAKKHNLTVTEISRILLQRYIDRNINHVEQNQAESDMVEVFASQPTNATAM  
 IPVPGTSFRQIFIKHSTGFWKNIHDLDVLDASKTPRVRDRSVLPQPQLHRALLSDADMA  
 RLAAQLTDXH

>RXN03017 TRANSLATE of: rxn03017.seq check: 6478 from: 1 to: 1539  
 MLDSLKNRFTKAKGSHGVGEGAVSGDAAVKPLRKEERLASVIQETEPGAAVEVMRRNDAF  
 ALPGETGWVVMMLPTHDSQFGGLNAKEKNREDKGTIINLVNDDIHSVVTPELLDSDVLG  
 VIPDADSFDRMDEFDILLRNKARWHYGVAIEPDTGELVVFKVPAKNSASARGDIFSEVGD  
 VLSGAADLEDVVDFFVIATFLEVLNETSEVDIDDEDGDVPYGLEGVNAAGVITDDLIREK  
 LDVDSYPSSAEIIDNIVHVF TKLQKKHVPQPVLSADVDVDAQESHDTVVIESPDV  
 ALAEQVDVPDFSDGFGIDDAEVTEPEDEEVVEATADADPFGDVAEDDPFGSDDEPDFGAS  
 DVVAAPAPVAGMSDEQIQALIRGVSESVQAKTGSELNALREELAQAALAYNPVQDSQAALA  
 QVHAADARSFDADQVGDAVTKRYVNDLGLYVDEANFNALTRAPFQVAMPQFQETTPWL  
 GDQLRTLAVFNGQLLDQHQDYRRSARDVHCA

>RXN03018 TRANSLATE of: rxn03018.seq check: 6149 from: 1 to: 993  
 VTTEEVRAMYIALNDRSNLEIARDLGLDNKDSEFYEVYRAIERDRDVMAGDQORVESERR  
 QQLQOEYEANREEYVMAKIAEQRVEYDRRHMPRHTASLEAVGRELTSLRDRDIEDYTARM  
 NTLRRARAGERANAAESRIIDELRPIVERQAEQRAAFDGFIVDLDFIADHREDDLRLA  
 SVNEQKLAADNRVAQLTKEAEERIEGIRVETDKMIASQRKALERQEAFAELKRRDTIV  
 AASEERAEREITARLDAEAALKRMEEQIRVNNEAHEAEIVIERDRATQAEANSMTFVES  
 VKQQDRSNNIILIAVLIVGLIAGMVAGAAFF

>RXN03024 TRANSLATE of: rxn03024.seq check: 8954 from: 1 to: 1416  
 MLERTQVFVDTSYLLASFYNSWETGARAQLEIDLPEVVGVGLGRMIEQQLKQPVQRQMWDYD  
 GIPDSGPHRYQALRTCDGVQLRAGQLIEWGERRTQKAVDTRLVADLVLAGVRGQCSDIV  
 LVSGDADMIPGVQEAANAGLRVHLYGFGWDSMSSQLRHCCDTTITLDPREDFAECMQLQV  
 LEGPLPPVVRVKPINDAEPIEDLDFTVPVPGVASPFEEVSADKFKSPRSEPAAEALSEQV  
 CEAYEISKHEGQTADSGEITESFEAAEIKVTEFFGEPAPVAESGVEAPTPEAPTVEA  
 AKPTPAKPKTPKAEPQKQESPKPGTPKPKAPSPADIPKAPADTEHSEVEAEIEDSRPK  
 IPSPSMMAPRRKLSRYVPLPNEVWATAGFQTPYDVGQYASWWFENAATSTQRDQAHLL  
 SGGGLPPEIDRPLLQFACETLHEYTLTEAQRVALRDGFHSGIRGVLLNQDS

>RXN03025 TRANSLATE of: rxn03025.seq check: 3655 from: 1 to: 873  
 MANPLSKGWKYLMAFNDKIDENADPKIQIQQATEAAQKQHQQIMQHASQIIGQKQLEM  
 KLNRLVTDRLKQEQARQAIQLADKSANEGDSVKAQEFNNTAEVFASQLVAVEQQLEQTT  
 ALHQQAEEVAAKDAVAKSKESEMRLKEQMSQIDALRAQADQAKMQESVTKSMDSLNNQFGTQ  
 DSSVPTLDAVREKIERRYADALGAQELTQNTVSDRMAEIAQSGTDMRASARLAELRAEL  
 GTSATPKGQLEAGVEDAEELIDETSTPSATPETASPEADAPEASADESEKK

>RXN03027 TRANSLATE of: rxn03027.seq check: 7054 from: 1 to: 135  
 MENVYEFGLNLDVLSGSLIGYVDFDLGASSKWAGAVADLIGLLG

>RXN03029 TRANSLATE of: rxn03029.seq check: 3295 from: 1 to: 513  
 MFGVGYTTAHLSTLQRPNLRGIPLTFVSVDRAGNMSKRQSATGFHFTHYGGTCPLWNV  
 FETFTNPGQVLRQFAQMPDGRNYLWISRTVRHHEARFGEVDKMFAGLGCARHADRTVY

SRGFNLQDLSTATPIGSGCRVCTRENCAQRAFPVSVHGRINIDAHESTIAPY

>RXN03031 TRANSLATE of: rxn03031.seq check: 9392 from: 1 to: 789  
 NNGLNAMAAMTNLPHLRAIQERYFSLIRYLASIMIAVAKADPTLWEELDLRITDALTPV  
 TAGEVMIQSSTLSKRIAIAWIKELDPEPTPEPIPKEDYVHVHTTDEATYVRIKISGPNRLI  
 LNDIITQLKDDTDESLPEALMAFLMEKIQLKITKYLFTPHKHPEQVWSPDYGDIGPEAY  
 ANATLVCAKDLDEVAGATEKSYTPSEKMKALIRARDGHCRCFPGCCVPASKCQVDHIIPWA  
 EGGPTAAWNLLCQRHNMKTD

>RXN03032 TRANSLATE of: rxn03032.seq check: 9767 from: 1 to: 285  
 MTDGDLADISPRQIGLMTTTRTVVEIVRLRHMIAQQLERATIMENEYLKEIAALKKELAH  
 YKQKDHQNMVIDILGKAIGTRPNPGEGLDEEDAT

>RXN03034 TRANSLATE of: rxn03034.seq check: 6067 from: 1 to: 660  
 FPPDRISANGRRYYEPQTRLEFMRIYTTLPHGYRQPFLLKANNIGHCTVRTWLAAISTFSR  
 LPHAFDDAHRFGIERTTPVDDVTTLTADDKRDVLIGYLAQPHGQGOQFLTFYQLRKHTIM  
 AWCAAMTDGDLADISPRQIGLMTTTRTVVEIVRLRHMIAQQLERATIMENEYLKEIAALK  
 KELAHYKQKDHQNMVIDILGKAIGTRPNPGEGLDEEDAT

>RXN03037 TRANSLATE of: rxn03037.seq check: 5439 from: 1 to: 186  
 MSVDDLYAVALDTHTGKPIPCVLCENAPQIVIYDGCCSLAYTQALGDLAEEYAGDLAA  
 AA

>RXN03041 TRANSLATE of: rxn03041.seq check: 9452 from: 1 to: 498  
 MEGPEAFTVAAIAAAAGVSPRTFHNYPFSREDALVQFVIRVQELTDQLYEFPTSVPPRD  
 AIEQLVINQLRDGDAMDSDSFRIGELLENLDPIKCVIDKERLIAPLLEFMVERDKDL  
 DKFDXGNSDPFACSGNCNLAAAYVLPSPFRAPGHRRWSRIDPSGMRD

>RXN03045 TRANSLATE of: rxn03045.seq check: 9805 from: 1 to: 996  
 MSITTHVQALTTALNAIDNHLASMLDHGVTDPQYKAIEPDLIALEHTINHHATIAAQTTA  
 LAERTNAAQSIGSTHLIDYLTTFGLSKARAHHRINLAHSLYPIPKPNSGSGNGGNGNP  
 DGGPDGGSDDSDSDSDPDPEPKPEDGKPDSDKPRRPRISAEKHAIITDELARLNPNT  
 TPSAEELRNQALSQAIWRTPEDLRTWLRHQVTTANKNNPNPITAMKRRYLSVGKPDADM  
 VRISGLVPAATAALITANTAPLTKRGNLVDLPAEDMRTRGQRHADALHHIMEIYNHGIV  
 TPARGGTASIIISMTTDDLDEINHANSSGESL

>RXN03046 TRANSLATE of: rxn03046.seq check: 2540 from: 1 to: 336  
 ASIANSTLNIPVGLGGSNLLKAQTATPSEPANAQDKLYRFCIANGKRAFSDAQRFLLNA  
 DELAELSDYERLAYAITLLDQPGKEAEGRELFPPGASPPGLPRCRFLGIPDC

>RXN03047 TRANSLATE of: rxn03047.seq check: 8954 from: 1 to: 1416  
 MLERTQVFVDTSYLLASFYNWETGARAQLEIDLPEVVGVLGRMIEQQLKQPVQRQMWDYD  
 GIPDSGPHRYQALRTCDGVQLRAGQLIEWGERRTQKAVDTRLVADLVLAGVRGQCS DIV  
 LVSGDADMI PGVQEAANAGLRVHLYGFGWDSMSSQLRHCCDTTILDPREDFAECMQLOV  
 LEGPLPPVVRVKPINDAEPIEDLDFTPVPGVASPFEEVSAKDEKFSRPPSEPAEALSEQV  
 CEAQYEISKHEGQTADSGEITESFEAAEIKVTEFFGEPAPVAESGVEAPTPEAPTPEA  
 AKPTPAKPKTPKAEPQKQESPKPGTPKPKAPSPADIPKAPADTEEHSEVEAEIEDSRPK  
 IPSPSMMAPRRKLSRYVPLPNEVWATAGFQTPYDVGGQYASWWFENAATSTQRDQAHLL  
 SGGGLPPEIDRPLLQFACETLHEYTLTEAQRVALRDGFHSGIRGVLLNQD

>RXN03048 TRANSLATE of: rxn03048.seq check: 3655 from: 1 to: 873  
 MANPLSKGWKYLMAFDNKIDENADPKIQIQQATEAAQKQHQQIMQHASQIIGQQKQLEM  
 KLNRLVTDRLKQEQARQAIQLADKSANEGDSVKAQEFNNTAEVFASQLVAVEQQLEQTT  
 ALHQQAEEVAAKDAVAKSESEMRLKEQMSQIDALRAQADQAKMQESVTKSMDSLNQFGTQ  
 DSSVPTLDAVREKIERRYADALGAQELTQNTVSDRMAEIAQSGTDMRASARLAELRAEL  
 GTSATPKGQLEAGVEDAEELIDETSTPSATPETASPEADAPEASADESEKK

>RXN03050 TRANSLATE of: rxn03050.seq check: 8926 from: 1 to: 966  
 MSITTHVQALTTALNAIDNHLASMLDHGVTDPQYKAIEPDLIALEHTINHHATIAAQTTA  
 LAERTNAAHTIGSTHLIDYLTTFGLSKARAHHRINLAHSLYPIPKPNPGSGNGGNGNP  
 DGGPDGGSDDSDSDSDPDPEPKPEDGKPDGDKPRGPRISAEKHAIITDELARLNPNT

TPSAEELRTQALSQAIWRTPEDLRTWLRHHVTTANKNNPNPITAMKRRYLAVGKPDADNM  
VRISGLVPAATAALITANTAPLTKRGNLVDLPAAEDMRTRGQRHADALHHIMEIYNHGIV  
TPARGGTASIIISMTTDDLDEI

>RXN03053 TRANSLATE of: rxn03053.seq check: 9689 from: 1 to: 1524  
FHFTSTEFAGSYSLVTNGLNDVAGEYVGVMRGDVNNASVLFVDVDRWSGHVVCADSSINTS  
PLLKRPRVDMWWSKISQAALLNNRRVVHLVLNGAKLDEMGPKLESMTAHVDMTSGDLNM  
FELFGKQDELSLYSTHMDKIVFMTEQALGDKTSELALLRGKLKEIITAFYVDMKMWALN  
AGENRDKLRLVGVPHQIPLLSVFSYLDQEYERQKYEGTKDPEMFRAISVLRRLTYKDLL  
DTHGDLFNQHTADGIDSVSARRVIYDFSGVLRGAGVAMAQLVNVIGFAVETLGQGDVV  
IIHGADGIVDQDYLANQFAYMAERGGRVAYLYSSMDAMLTGTVGFNQFQRAAYTILGP  
MNVDSVDTYQSLINSQIPMDLARLVTTQNSGASYLRRGSTNVVFETNLALGVNPYMEQRR  
KIEAQRGQRRSKRDKHYGGGTTMVGTTADLDVVAIQAKAEHREERFDEKSARKMKELDDVE  
AKELALKTGPKNLDDALAQVEKKRLAKR

>RXN03055 TRANSLATE of: rxn03055.seq check: 6322 from: 1 to: 429  
MYSKDLILLFLSEQDSSYECCVGLLDGSDGRDYIEKLLKGRKLKNHFLEWEDINKADVAR  
EEIYKQGLVHLVFTALSTPGEISFVFPQSLMSATLEEDFAALVLEEERTSFRPELSHL  
WSPVGVWVAPGLEGFVERNSEA

>RXN03059 TRANSLATE of: rxn03059.seq check: 9601 from: 1 to: 480  
MNSGSTMRRLISLRNIGAHKVRLFTVLAVVLGTSFVSGAMFTNALSSTFDEAIASSFDG  
VDVVSPNGASEVQGVPTVESLREDSRINHLNINGSQTVVLADADSKAIQTTGGSSLS  
IYSSADDAVAQAPELAEGEAPTGTTEEVLASKAGAEANGLE

>RXN03062 TRANSLATE of: rxn03062.seq check: 8000 from: 1 to: 522  
METPTQMDVWRWLYTQSQLKLREILPTNKTDFDVIQISELVDPTDFIRPNSVVLVSVGIAFA  
ETPDGLRDWAHLADAGVIAIGFGSGLTFPQVPQALIDASLHLGLGLFEVPREIPFISIT  
SSVRDEQTRRAGRLQOELLEQERLNSIAISGGIEALCRAAADYLGGAVTIVDS

>RXN03066 TRANSLATE of: rxn03066.seq check: 1968 from: 1 to: 663  
MTSDKDTEQLEAAGTEILMPRRRPAQQRSRERFNRILTAARSVLVDLGFESFTFDEVAKR  
AEVPIGTLYQFFANKYVLICELDRVDTAEAVALKKFSDQVPALQWPDILDEFIEHLARL  
WRDDPSRRAVWHAIQSTPATRATAAATEKEMLEIIAEVMRPLARGAGYEERMSLAGLLVH  
TVSSLLNYAVRDVNSSEEDFDSIVEEIKRMLISYLSVATG

>RXN03067 TRANSLATE of: rxn03067.seq check: 3872 from: 1 to: 171  
VMTAWGAFGEKKNYGKIVQGVIRSTFLINADGTVGMAKYNVRATGHVERIVREITAA

>RXN03068 TRANSLATE of: rxn03068.seq check: 9072 from: 1 to: 120  
TKEACDFRDSLSNLNDLDIAVVGISPDPVDKLVSSVRTMS

>RXN03073 TRANSLATE of: rxn03073.seq check: 8068 from: 1 to: 630  
MDSVNVLLIGIIVAI AALLPRKGKYGPATLLVAGDWLGVLFSILVMLVFDGLEDLVQG  
FLDSIWFGVILLVTGIVSFVATLVSKTDSTRKLDGFLAPVKTPSWKTGAGLILGIVQSA  
TSVPFYAGLGLSVGNFSPEIRYGGGLVYATLALSPLIIVAILVGMVRKYPESPVGRLFE  
LIGQNKERVTKWSGYLVSLVLCIMGITSIL

>RXN03085 TRANSLATE of: rxn03085.seq check: 6690 from: 1 to: 351  
MSIHIKVDHVLKGEKTYGTTILVDRLWPRGVKKDDLEPDLWLKSVAPTTELKRWFGHDP  
AKFSEFSTRYTEELNASNDKDLETIVDATSRHPVTLLYGAAARDHNHAIVLAKWLKK

>RXN03089 TRANSLATE of: rxn03089.seq check: 2217 from: 1 to: 1158  
HSLYPIPKPNSGSGNGGNGNDGGPDGGDSGDDDDSGDDDPDPEPDKPEDGKPDSDKPRR  
PRISAEKHAIITDELARLNPNTTPSAEELRTQALSQAIWRTPEDLRTWLRHQVTTANKNN  
PNPITAMKRRYLSVGKPDADNMVRISGLVPAATAALITANTAPLTKRGNLVDLPAAEDMR  
TRGQRHADALHHIMEIYNHGIVTPARGGTASIIISMTTDDLDEINHGDHGDGSLNNLYP  
TNTGYSLNLAIEIMNLIAAKYDFAVLDDGETGQPLNVNRMQRSANLTQRIALFASELVCSA  
PNCDRPQLECEVHLDPMWRGGLTNLVNLTHQCFNHHPRNDDSRSGVNGKGFMDRDPVTG  
RVGHYSASGEGPVFNRSAAADRSGGA

>RXN03098 TRANSLATE of: rxn03098.seq check: 3946 from: 1 to: 624  
 MPTTDVFNVRRLALEPLADPARATGMASYMRDQFSFLGIPSTPRKEACKPVLSALKELDT  
 DFVSDCFGAAREYQYVACDHINRVGITDLGFAKALVQTKSWWDTVDSLAKPIGAKHDDD  
 LMKTWALDEDFWVRRIAIHQIGRKKNTDAALLAWIIEQNLGSSEFFINKAIGWALRDFA  
 RHDPSWVRAFDATDLSPLSRREALKNI

>RXN03099 TRANSLATE of: rxn03099.seq check: 8629 from: 1 to: 675  
 VVDAVHVDVLQIALARRGEYNLGNALGLEVLGQAFVTPAAGVVYHDGVIDAVFGVINGGW  
 VIGVDDLDWGAVGPDDVVVVIIGGDGAIESTVDRIITQQGCALDQVFFTIADHDGAQTST  
 VIQCLAGNQDAGQQATDAAETVQHDISWVDVGFRITNDRRESVLQEGTQVGAFGFFEAVGQ  
 LSQVDRCGTKVHIYQFAQNIQGAQWKFQWFLGYDVAGVAVRLDDIDV

>RXN03104 TRANSLATE of: rxn03104.seq check: 6257 from: 1 to: 177  
 LELNAWEDILDLLSWSGSGNGAQDQTVIQVLEGFNAIVILANKQSLVGKQVWATEVDGL

>RXN03106 TRANSLATE of: rxn03106.seq check: 1318 from: 1 to: 192  
 MSASFDDPNLISLAGLVPTMHLADAASLSTLAQDRLSITGDKGANAGAKIASLVAGMVAG  
 ADSI

>RXN03107 TRANSLATE of: rxn03107.seq check: 669 from: 1 to: 201  
 MSDFSNAEDLTGKAKEGFGEATDNESLADEGRADQAKADIKDAVENAGEKVKDAANKVL  
 GAFKKDD

>RXN03113 TRANSLATE of: rxn03113.seq check: 5526 from: 1 to: 1599  
 VLDFLAANPLIALVVLAVGLAIGQIRVFGLSLGAAVLFVALVVSTANTDIVIPMIVYQ  
 LGLAMFVYVIGLSAGPAFFSEFAKKGWKLTIFMLLLLATLIGLAWVLIKSLGLDAAIGTG  
 MFTGALTSTPGMAAVVELIEGIDPSLASEPVIGYSLAYPGAVLGSIVVAAGAKLLKVNH  
 REDARKEGMITAPLVWKGVLKPGITGRVGDLPRLAGESIIATRIVDDPHTHRLADPDLP  
 ITEGMELLINGTEEAVDRAIKALGEERETKIEDTELIYTRLTVSSPEVAGRTVAELDTVA  
 HGFMIARIRQGDSEVVPKPDVTINYSRIRVVVAPGRVAEVRFLGDSEKSLADVNLPL  
 AIGLSLGLLLGAIPILPGGTTMSLGFGGGPIIAGLILGALKHTGPLTWQMPFHANRTIS  
 TLGLALFLAGVGTSAAGAFRAALTDSSSLIYMAGGLVITLASALLCAVIGMWVLRRLRWE  
 AMGVAAGTTTNPAAISYLNQGTGTDLANRGYATVYPTAMIGKILGAQILFLLL

>RXN03115 TRANSLATE of: rxn03115.seq check: 582 from: 1 to: 399  
 VGKQEKLRIPLDVPGVESEEVGVELLAEGYYLVATLPAVAQDCALGDVVRHHVDEVLEF  
 QEVAVAGGNKTLRVLVDAIAADHVRAQLETGLHVEAPMSEMLTVNIAPDSPSHGLEILL  
 DDLHAQGVIFRAL

>RXN03122 TRANSLATE of: rxn03122.seq check: 3973 from: 1 to: 147  
 MTAHHEGAVDMARDEVTDGQNPQAIALAEQVIEDQEAIEAEMEHLNEL

>RXN03134 TRANSLATE of: rxn03134.seq check: 1542 from: 1 to: 351  
 VAWRVGPGSHEHDIVGSSGFGSEADGGFFPASEGLALDNGAGDAAVDVGVSDDIDVVKPGA  
 DFVGVEGLESAGESEVVAVLEFDGFIIEVGGFHQAEWDSEYFCEVEEGSWFDAFFDAG

>RXN03135 TRANSLATE of: rxn03135.seq check: 3240 from: 1 to: 729  
 LVLDERWVGVLVDKWDEGGVEKRLFAAVLCVVGAGRGHVDERGEVRYGGAEAAALLSLEG  
 RVVGVEVEDGGHEVFARGVFLEAAHEVRNGHVEFLWAHGWWYVKQQLTDVNADGARLIGRH  
 ALQHFELHTVRYPTLHREQMCECYVEKVVAGNAQAALHVFFAHRPIEDALVIGIGGLFG  
 RFCGNWPAGDLRVDVLHRQISTLDQANLNARPACVDALAAELRQVLDCTEGIGKVRLQHN  
 SGF

>RXN03138 TRANSLATE of: rxn03138.seq check: 608 from: 1 to: 471  
 LDIVPKDVAESFAVGVEVFLRVLGDGVVDDVPVHSIDGGSDFGGSVWGEHSERAVVLGT  
 ARTGGSCVVKQISYFFYLASYGRRWQNLVGAGGGEVFGEDCVGAGEVVGVGDAGEFVANG  
 DQSGEVEVVQLLQGFEEGQVGERGKRDRGYAGDLRFC

>RXN03140 TRANSLATE of: rxn03140.seq check: 4447 from: 1 to: 249  
 VKGIHQEISRIERSHDYLWSVREDLHARFDNQLKAHFVDSVLDSIAEGYEGRINRFRKIF  
 IEMKAVEELRTIAATRPSHLLAA

>RXN03141 TRANSLATE of: rxn03141.seq check: 2295 from: 1 to: 330  
VVEATGVAGGNHVATVWHAGVLGVEGCFVDEVDVDFVANEVIRHGADVVDALVIGRVGN  
HEALALVGLLSGKVAGFAAAGLFQGVFGWEGVLDCLLNARDASQSIGVAL

>RXN03146 TRANSLATE of: rxn03146.seq check: 6973 from: 1 to: 471  
MNPRIIMLLRIIFGAFLALLVLQVLLAIKIVRDGLNSGELSPIPLTILASFVVIIGFGLV  
QFIIVCLFALLRLVEDDEIFDAHSLAWVDRIAITIAAGAVLLLPMAIYVAEVDAPGAIV  
FGLILAMLITGVSLLVKIMRALLARAIGFSTELSVI

>RXN03147 TRANSLATE of: rxn03147.seq check: 6179 from: 1 to: 252  
LEILFKSGLGFVVIIGAVGEYFGADFCGAGAGGGGLLKLAEYIAGWIAGESADDVFGFVV  
CVRLEFETFLGVGVCQRGIVWEEHG

>RXN03149 TRANSLATE of: rxn03149.seq check: 777 from: 1 to: 267  
VVIGELLPKSYSIVNTEKVVLFVVKPLHYFYKVMFFIIVLHNHSAAGLGKLLGVRLVSEG  
EETLSQEELTLVALNSYEKGELPKKNIII

>RXN03152 TRANSLATE of: rxn03152.seq check: 1285 from: 1 to: 273  
MKLFSRTPLVALGTAAAMAATSISVPAQAEVAPAQVVYVADTVEEETGSSNGSSDIDSD  
TILDYVVVITGIVGVLSAGLTFATAFQRSIQ

>RXN03153 TRANSLATE of: rxn03153.seq check: 7794 from: 1 to: 564  
MRRIWLLVCGIALTVAGCTSGSTTPTTVTVTATPTSEEAASTEPTNDILASQFHPCEVLT  
QEQFEEVGLGLVIVEDAYLGSTGLGCSFGKADREDFSGTWLISTDQANRQFVENQDLETL  
DWGSNDNPDLYVHQMSETGRQCEAAVDYDWGRLTVDYLELGEGWEPEILCSDAVEILENL  
IKELRGIP

>RXN03154 TRANSLATE of: rxn03154.seq check: 5495 from: 1 to: 912  
MLKTTLTITDTLGHVTSTEPTTTAHVPLPDGSSTPVQIOWASDNKDSQLVMLWPGFGMGYY  
YRPLAALNKGAFHVAIGELRGQGQSSAKASRSQWGYHDLASVDFPLQIAAAKKALDLE  
EGHPMRFLSHSMGGQISCLFAARPEAEKYNLRAIFGVGAGSPFRPTFSPKMGKRLGLGAV  
LLGGIGGHIVGFWPGKVLGKDLVGYGRQSGTHMREWRRFHKHNSLDDLTQAQDINYVEVMK  
KVSIPITFSRCPDDEDCPQASIDGLASFVPAAQIKMIEIPEALGHNRRWAREPESTVKLFL  
EQAL

>RXN03156 TRANSLATE of: rxn03156.seq check: 5548 from: 1 to: 180  
MARTTPPPADVLDIIISTVKQTIGIDLAEIQGRALGQAQGEAQGKASAAALEQAPHNEQ

>RXN03162 TRANSLATE of: rxn03162.seq check: 7855 from: 1 to: 396  
VHDEHWVWSDEKDADFADDAWHETHINEHAVVADDVLVTEIHELAEADFSVVVDCFGA  
LDFSQVQWQCGAWLDGCSQFLVYQLDAPNAGAGGATVLLLEHALTEGQGGWENLVEGLHVVV  
RLGVGWHQVGLG

>RXN03167 TRANSLATE of: rxn03167.seq check: 749 from: 1 to: 630  
MNTNLPNLYTAFDLDRSESSEALGVSLSARDLRLEQMGIQDDPRRAQTVQAFVLADPA  
KRATYDAQLEAGVPLTWAQIQHLGNFGTLPSTPTAQPFAPQPEPSPEPQQQWNSGQNYA  
YGNPTMDYQTQQSYNPMQDQTQASMYAQPFANTPAPMYSNQVFNRPTAGTRLWMAILDS  
IFAGIAGGIVSGIFGFGSEFLTSVIMILVL

>RXN03170 TRANSLATE of: rxn03170.seq check: 4430 from: 1 to: 249  
LPHAKELAEHLCLLPAPVAPALPTDSGAQFDIHQALSASLATYARNLTLLSHTAENLGNR  
ALTGLAEIEDTDDQLAHALERLT

>RXN03172 TRANSLATE of: rxn03172.seq check: 3870 from: 1 to: 1026  
PEWKKFNSGDAARVVPDANAELDIIGAPALLADRPSYANVKTLRIFAVMRSLGHVTAAS  
PVTVFFSSHVSLSNVDRGSEHYSGPNGLGEWTSVGRAVATNWNNGVVDALDEAITVKEVNS  
LFTEDAATRIQEAQAAVQAAREAEQIAKEEAEKVDPYDNPWAAAGIDPIKVSIDGRTI  
YTLRTRYLGQPVLGKFGGEISTFNSQKSLRLVLEHDDHDLARASTWSDMLGINAGETE  
LLVHSDNVYSFNGLVKDINTSVDAVDTOQMARAYELMADTADWADDDSMNSYFLANPRMQ  
DYISYMLGGSDTSGYVPHAPFNDHSESWARELEEMLIKRFSEK

>RXN03173 TRANSLATE of: rxn03173.seq check: 9151 from: 1 to: 1098  
 LNRDTHHLWVVLTTDSDDFDADSFTEVIRITGYSRHEVNNGLNAMAAMTNLPHLRAIQE  
 RYYFLSIRYLA SIMIAVAKADPTLWEELDLRITDALTPVTAGEVMIQSSTLSKRIA AWIK  
 ELDPEPTPEPTPKEDYVHVHTTDEATYVRIKISGPNRLILNDIITQLKDTDTEDSLPEAL  
 MAFLTEKIQLKITKYLFTPHKHPEQVWSPDYGDIDPEAYANATLVCAKDLDELAGEATEKS  
 YTPSEKMKALIRARDGHCREFPGCCVPASKCQVDHII PWAEGGPTAAWNLLCQRHHNMK  
 TDGRFTADANGLAEIRWIGPMDVPAVTRPTGPLVKAMPRIWGVLRDRIQARFERIRDR  
 ALNKED

>RXN03174 TRANSLATE of: rxn03174.seq check: 9763 from: 1 to: 456  
 MLLTILWAIGITAEGMTGALAAGRQKMDLFGVSVIACVTAIGGGSIRDMLLGHYPLVWVE  
 KPLYLLLIIGAAILTVSISFLMEHFRVLFLVLDVAVGLSAFAVIGTQIALEMGYGFIIAVV  
 ASVLTGVFGGVMRDLLCDRIPLVFQKELYASI

>RXN03177 TRANSLATE of: rxn03177.seq check: 4510 from: 1 to: 666  
 VKKKLMLPLIVAALGLSACSSEPAAAPLEAEPLHNNLLIDGSESGLDNATEGNDTSLSGQP  
 INLTVVNGALDIDGSCGKALQAVEDVNLDVASASRALASGDKQVGIAMYSTAEDNDISP  
 MDLYADIANACEDPVVDSSDTTYTFGKLDDAPDGAVGFTLDIEVTPDNQGSTVMMIQELG  
 NHHIIVAGLETTPEETATVFEAQRTKLEEGQLKQNWQLGWV

>RXN03182 TRANSLATE of: rxn03182.seq check: 2985 from: 1 to: 273  
 MTLQLFTDIVSLVFILSGAFLSFSASIGLIRFKDTMSRVHAMTKPQTTGLILTVVGAIIR  
 ILGHEHFDQSQRS DLGVLVLLVLFALLTSPV

>RXN03184 TRANSLATE of: rxn03184.seq check: 3926 from: 1 to: 498  
 MVGAFFGGGV LGGYIPGTILMIAFALMMIATSTAMLRGRKQKKGASKSSLWRVLVDGLVVG  
 AVTGLVGAGGGFLVVPALALLGGLSMPVAVGTSLVVITMKSFAGLAGYLTSVQLDWGLVL  
 MVTAAAIVGSLAGSRLAGRPETLLRKGFVGVFLVMGVFVLGLELL

>RXN03185 TRANSLATE of: rxn03185.seq check: 4886 from: 1 to: 189  
 MNDLAAEGENDPYRMVQQLRRKLSRFVEQKWKRQPVIMPTVIPMTAETHIGDDEV RASR  
 ESL